

LLNL Livermore Site First Quarter 2008 Self-Monitoring Report

The following is the first quarter 2008 self-monitoring data for the treatment facilities and Lake Haussmann at the Lawrence Livermore National Laboratory (LLNL) Livermore Site. Due to a more than 50% reduction in budget for the Livermore Site project in Fiscal Year 2008, the following facilities were shutdown: TFC East, VTFD-ETCS, TFD-HPD, VTFD-HPD, VTFD-HS, VTFE-ELM, TF5475-1, TF5475-2, TF5473-3, VTF5475, TF518 North, VTF518-PZ, and TF518-PZ. Also, TFA West was shutdown in January after a year-long treatability test.

The volumes of ground water and soil vapor treated and volatile organic compound (VOC) mass removed during the first quarter of 2008 are presented in Tables 1 and 2, respectively. Table 3 presents an historical summary of VOC mass and volume removed.

Attachment A presents ground water treatment facility and extraction well (ground water and soil vapor) VOC, chromium, bioassay, turbidity and chloride analyses (Tables A-1 through A-5). Metals and radiological analyses are presented in Tables A-6 and A-7, respectively. During the first quarter of 2008, all effluent sample analyses were within acceptable discharge limits with the exception of zinc in the TF518 North discharge. Zinc historically has not been detected at this facility and the data are being reviewed. TF518 North is currently shutdown.

Self-monitoring reports for all treatment facilities are presented in Attachment B. Monthly volumes of ground water extracted are shown in Appendix B; however, instantaneous flow rates are not shown for wells that are now only used for sampling and are not continuously pumped. The monthly volume shown for these wells is the quantity of water evacuated for sampling purposes. Monitoring data for Lake Haussmann are presented in Attachment C.

A well location map showing newly installed monitoring wells and treatment facilities, and ground water elevation contour maps showing hydraulic capture zones for hydrostratigraphic units (HSUs) 1B, 2, 3A, 3B, 4, and 5, are presented in Attachment D. There were no new monitoring wells installed during this reporting period. The contour maps for the individual HSUs are based on the month that best represents the pumping during the first quarter; due to the budget reduction, water levels were only collected in January and February.

This work performed under the auspices of the U.S. Department of Energy by Lawrence Livermore National Laboratory under Contract DE-AC52-07NA27344.

Table 1. Volumes of ground water and soil vapor extracted and treated at the Livermore Site, January through March 2008.

Treatment Area ^a	Month	Volume of ground water extracted (Kgal) ^b	Volume of vapor extracted (Kft ³) ^b
TFA	January	11,685	-
	February	9,419	-
	March	11,175	-
TFB	January	959	-
	February	0	-
	March	612	-
TFC	January	3,325	-
	February	3,508	-
	March	2,981	-
TFD	January	7,487	0
	February	5,626	0
	March	5,137	0
TFE	January	2,741	3,499
	February	2,065	1,397
	March	2,395	496
TFG	January	686	-
	February	569	-
	March	608	-
TFH	January	944	3,140
	February	874	2,753
	March	341	2,453
TOTAL^c		73,137	13,738

^a Totals include ground water and soil vapor extracted from the following facilities:

TFA area: TFA, TFA-E, TFA-W

TFB area: TFB

TFC area: TFC, TFC-E, TFC-SE

TFD area: TFD, TFD-E, TFD-HPD, TFD-S, TFD-SE, TFD-SS, TFD-W, VTFD-ETCS, VTFD-HPD, VTFD-HS

TFE area: TFE-E, TFE-HS, TFE-NW, TFE-SE, TFE-SW, TFE-W, VTFE-ELM, VTFE-HS

TFG area: TFG-1, TFG-N

TFH area: TF406, TF406-NW, TF518-N, TF518-PZ, TF5475-1, TF5475-2, TF5475-3, VTF406-HS, VTF511, VTF518-PZ, VTF5475

TFF started operation in February 1993 for fuel hydrocarbon remediation. In August 1995, the regulatory agencies agreed that the vadose zone remediation was complete, and in October 1996 a No Further Action status was granted for the ground water.

^b Totals are derived from individual extraction wells shown in Attachment B

^c Rounded number

Kft³ = thousands of cubic feet

Kgal = thousands of gallons

Table 2. VOC mass removed at the Livermore Site, January through March 2008.

Treatment Area^a	VOC mass removed from ground water (kg)	VOC mass removed from soil vapor (kg)	Total VOC mass removed (kg) ^b
TFA	1.5	-	1.5
TFB	0.1	-	0.1
TFC	1.3	-	1.3
TFD	8.6	0	8.6
TFE	2.1	0.9	3.0
TFG	0.2	-	0.2
TFH	0.6	26.6	27.2
TOTAL^b	14.4	27.5	41.9

Table 3. Historical summary of volumes of water and soil vapor removed at the Livermore Site through March 2008.

Treatment Area^a	Volume of ground water extracted (Mgal)	Volume of vapor extracted (Kft³)
TFA	1,547	-
TFB	342	-
TFC	340	-
TFD	798	49,708
TFE	285	124,223
TFG	54	-
TFH	129	156,829
TOTAL^b	3,495	330,760

Table 4. Historical summary of VOC mass removed from water and soil vapor at the Livermore Site through March 2008.

Treatment Area^a	VOC mass removed from ground water (kg)	VOC mass removed from soil vapor (kg)	Total VOC mass removed (kg) ^b
TFA	193	-	193
TFB	70	-	70
TFC	85	-	85
TFD	748	84	832
TFE	197	141	338
TFG	9	-	9
TFH	29	1,102	1,131
TOTAL^b	1,331	1,327	2,658

^a Refer to Table 1 footnote for facilities in each treatment facility area.^b Rounded number.

Abbreviations for Tables 2, 3 and 4:

Kft³ = thousands of cubic feet.

Kg = Kilograms.

Mgal = millions of gallons.

VOC = Volatile organic compound.

Attachment A

**VOC, Chromium, Bioassay,
Turbidity, Chloride, Metals, and Radiological Analyses**

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFA													
TFA-I001	15-JAN-08	E624	<1	<1	1.1	<1	1.5	<1	<1	8.2	<1	0.81	<1
TFA-I001	04-FEB-08	E601	<0.5	0.92	1.1	<0.5	1.3	<1	<0.5	7.5	<0.5	0.68	<0.5
TFA-I001	05-MAR-08	E601	<0.5	0.93	0.97	<0.5	1.3	<1	<0.5	7.4	<0.5	0.72	<0.5
TFA-E													
TFA-E001	15-JAN-08	E624	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1
TFA-E001	04-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFA-E001	05-MAR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFA-E													
W-254	15-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	0.75	<1	<0.5	54	<0.5	1.2	<0.5
STU06-I	04-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	0.71	<1	<0.5	52	<0.5	1.2	<0.5
STU06-I	05-MAR-08	E601	<0.5	<0.5	<0.5	<0.5	0.7	<1	<0.5	55	<0.5	1.3	<0.5
TFA-E													
STU06-E	15-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
STU06-E	04-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
STU06-E	05-MAR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFA-W^a													
W-404	14-JAN-08	E601	<0.5	<0.5	1.2	<0.5	1.6	<1	<0.5	7.3	<0.5	<0.5	<0.5
W-404	14-FEB-08	E601	<0.5	<0.5	1.1	<0.5	1.4	<1	<0.5	7.1	<0.5	<0.5	<0.5
W-404	12-MAR-08	E601	<0.5	<0.5	1	<0.5	1.4	<1	<0.5	7.1	<0.5	<0.5	<0.5
TFA-W-E	14-JAN-08	E624	<1	<1	1.1	<1	1.4	<1	<1	6.5	<1	<0.5	<1
TFB^b													
TFB-I002	09-JAN-08	E601	0.58	1.6	<0.5	<0.5	1.5	<1	4.1	1.5	<0.5	12	<0.5
TFB-I002	10-MAR-08	E601	<0.5	1.2	<0.5	<0.5	1.4	<1	4.6	1.5	<0.5	8	<0.5
TFB-E													
TFB-E002	09-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFB-E002	10-MAR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC													
TFC-I003	07-JAN-08	E601	<0.5	1	<0.5	<0.5	0.89	<1	11	6	<0.5	14	<0.5
TFC-I003	04-FEB-08	E601	<0.5	1.1	<0.5	<0.5	0.79	<1	9.3	6	<0.5	14	<0.5
TFC-I003	05-MAR-08	E601	<0.5	1	<0.5	<0.5	0.83	<1	10	6	<0.5	14	<0.5
TFC-E													
TFC-E003	07-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC-E003	04-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC-E003	05-MAR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFC-E^c													
MTU1-I	08-JAN-08	E601	<0.5	15	<0.5	<0.5	1.1	<1	13	0.79	<0.5	9.8	3.8
MTU1-I	11-FEB-08	E601	<0.5	14	<0.5	<0.5	0.96	<1	12	0.72	<0.5	8.8	3.4
MTU1-E	08-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU1-E	11-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC-SE													
PTU1-I	08-JAN-08	E601	<0.5	5.5	<0.5	<0.5	2.1	<1	7.1	<0.5	<0.5	16	0.52
PTU1-I	04-FEB-08	E601	<0.5	6.2	<0.5	<0.5	2.1	<1	7.5	0.56	<0.5	16	0.55
PTU1-I	05-MAR-08	E601	<0.5	6.7	<0.5	<0.5	2.2	<1	11	0.56	<0.5	17	0.76
PTU1-E	08-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU1-E	04-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU1-E	05-MAR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD													
TFD-I004	16-JAN-08	E601	1.8	1.8	<0.5	<0.5	0.57	<1	<0.5	0.75	<0.5	38	24
TFD-I004	05-FEB-08	E601	1.9	1.9	<0.5	<0.5	0.59	<1	<0.5	0.84	<0.5	40	25
TFD-I004	05-MAR-08	E601	1.9	1.9	<0.5	<0.5	0.56	<1	<0.5	0.8	<0.5	38	23
TFD-E004	16-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-E004	05-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-E004	05-MAR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-E													
PTU8-I	16-JAN-08	E601	7.7	1.9	0.5	1.5	8.8	<1	0.93	8	<0.5	110	1.8
PTU8-I	05-FEB-08	E601	7.7	1.9	0.58	1.7	11	<1	0.87	11	<0.5	120	1.4
PTU8-I	05-MAR-08	E601	6.6	1.7	<0.5	1.6	9	<1	0.84	15	<0.5	110	1.4
PTU8-E	16-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU8-E	05-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU8-E	05-MAR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-HPD^d													
---	---	---	--	--	--	--	--	--	--	--	--	--	--
TFD-S													
PTU2-I	15-JAN-08	E601	0.92	1.5	<0.5	<0.5	2.9	<1	0.88	4.7	<0.5	49	<0.5
PTU2-I	14-FEB-08	E601	0.94	1.6	<0.5	<0.5	3	<1	0.92	4.6	<0.5	51	<0.5
PTU2-I	13-MAR-08	E601	1.1	1.7	<0.5	<0.5	3.5	<1	1.1	5.1	<0.5	56	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFD-S (cont.)													
PTU2-E	15-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU2-E	14-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU2-E	13-MAR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-SE													
PTU11-I	07-JAN-08	E601	1.5	7.6	0.94	2.5	15	<1	3.8	45	<0.5	180	<0.5
PTU11-I	05-FEB-08	E601	1.5	7.7	0.84	2.3	14	<1	3.4	40	<0.5	180	<0.5
PTU11-I	19-MAR-08	E601	1.2	5.4	1.5	5.6	27	<1	0.99	93	<0.5	180	<0.5
PTU11-E	07-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU11-E	05-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU11-E	19-MAR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-SS													
PTU12-I	16-JAN-08	E601	2.6	2.3	0.76	2.6	13	<1	0.73	28	<0.5	140	3.7
PTU12-I	14-FEB-08	E601	2.5	2.4	0.77	2.8	12	<1	0.71	27	<0.5	140	3.4
PTU12-I	18-MAR-08	E601	2.9	2.4	0.74	2.9	13	<1	0.76	27	<0.5	140	4.5
PTU12-E	16-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU12-E	14-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU12-E	18-MAR-08	E601	<0.5	<0.5	<0.5	0.57	<0.5	<1	<0.5	<0.5	<0.5	2.8	<0.5
TFD-W													
PTU6-I	29-JAN-08	E601	<0.5	4.4	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	6.4	73
PTU6-I	20-FEB-08	E601	<0.5	4.8	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	5.5	50
PTU6-I	06-MAR-08	E601	<0.5	5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	5.6	54
PTU6-E	29-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU6-E	20-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU6-E	06-MAR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFE-E													
PTU3-I	28-JAN-08	E601	0.54	5.5	<0.5	<0.5	10	<1	9.2	19	<0.5	89	<0.5
PTU3-I	19-FEB-08	E601	0.6	7.2	<0.5	<0.5	8.5	<1	6.3	16	<0.5	72	<0.5
PTU3-I	11-MAR-08	E601	<0.5	5.2	<0.5	<0.5	9.8	<1	8.5	17	<0.5	83	<0.5
PTU3-E	28-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU3-E	19-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU3-E	11-MAR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFE-HS													
GTU07-I	28-JAN-08	E601	1.9	1.8	<0.5	<0.5	7.6	2.6	5.1	10	<0.5	240	<0.5
GTU07-I	19-FEB-08	E601	1.7	1.7	<0.5	<0.5	7.5	2.3	7.4	14	<0.5	240	<0.5
GTU07-I	11-MAR-08	E601	1.6	1.7	<0.5	<0.5	7	2.3	8.4	16	<0.5	250	<0.5
TFE-NW													
PTU9-I	29-JAN-08	E601	<0.5	1.3	<0.5	<0.5	<0.5	<1	1.1	<0.5	<0.5	12	<0.5
PTU9-I	20-FEB-08	E601	<0.5	1.2	<0.5	<0.5	<0.5	<1	0.93	<0.5	<0.5	12	<0.5
PTU9-I	11-MAR-08	E601	<0.5	1.3	<0.5	<0.5	<0.5	<1	1	<0.5	<0.5	11	<0.5
TFE-SE													
W-359	09-JAN-08	E601	4.1	0.69	<0.5	<0.5	10	<1	9.3	8.7	<0.5	100	0.91
MTU04-I	07-FEB-08	E601	3.5	0.61	<0.5	<0.5	9.2	<1	9.2	7.2	<0.5	100	0.67
MTU04-I	06-MAR-08	E601	3.8	0.67	<0.5	<0.5	11	<1	9.1	7.2	<0.5	130	0.9
TFE-SW													
MTU03-I	09-JAN-08	E601	5.1	3.3	<0.5	0.66	3.6	4.4	0.92	3.8	<0.5	110	<0.5
MTU03-I	05-FEB-08	E601	3	2.3	<0.5	<0.5	3.8	4.6	1.2	2.9	<0.5	95	<0.5
MTU03-I	06-MAR-08	E601	3.4	3	<0.5	0.55	3.1	5.2	0.93	2.9	<0.5	92	<0.5
TFE-W													
MTU05-I	09-JAN-08	E601	<0.5	0.97	<0.5	<0.5	2.9	1.7	20	6.3	<0.5	34	0.69
MTU05-I	07-FEB-08	E601	<0.5	0.99	<0.5	<0.5	2.6	1.6	19	6.4	<0.5	34	0.64
MTU05-I	06-MAR-08	E601	<0.5	1	<0.5	<0.5	2.6	1.6	18	6.1	<0.5	33	0.61

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFE-W (cont.)													
MTU05-E	09-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU05-E	07-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU05-E	06-MAR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFG-1													
W-1111	29-JAN-08	E601	3	10	<0.5	<0.5	1.3	<1	<0.5	1.6	<0.5	4	<0.5
GTU01-I	19-FEB-08	E601	3	10	<0.5	<0.5	1.3	<1	0.51	1.6	<0.5	4.5	<0.5
GTU01-I	06-MAR-08	E601	2.8	9.5	<0.5	<0.5	1.3	<1	<0.5	1.5	<0.5	4.2	<0.5
GTU01-E	29-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU01-E	19-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU01-E	06-MAR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFG-N													
MTU02-I	29-JAN-08	E601	<0.5	1.7	<0.5	<0.5	1	<1	1.2	16	<0.5	4.8	<0.5
MTU02-I	20-FEB-08	E601	<0.5	1.6	<0.5	<0.5	1	<1	1.2	15	<0.5	4.6	<0.5
MTU02-I	06-MAR-08	E601	<0.5	1.7	<0.5	<0.5	1.1	<1	1.2	15	<0.5	4.5	<0.5
MTU02-E	07-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU02-E	29-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU02-E	20-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU02-E	06-MAR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TF406													
PTU5-I	29-JAN-08	E601	<0.5	0.6	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	5.4	<0.5
PTU5-I	14-FEB-08	E601	<0.5	0.84	<0.5	<0.5	<0.5	<1	0.5	<0.5	<0.5	7	<0.5
PTU5-I	13-MAR-08	E601	<0.5	0.9	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	6.9	<0.5
PTU5-E	29-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU5-E	14-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU5-E	13-MAR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TF406-NW^e													
W-1801	28-JAN-08	E601	<0.5	2.1	<0.5	<0.5	<0.5	<1	6.7	0.7	<0.5	27	<0.5
GTU03-I	14-FEB-08	E601	<0.5	2.2	<0.5	<0.5	<0.5	<1	6.5	0.7	<0.5	26	<0.5
GTU03-E	28-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU03-E	14-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TF518-N^f													
W-1410	23-JAN-08	E601	2.8	1.5	<0.5	<0.5	<0.5	<1	<0.5	0.83	<0.5	18	<0.5
STU09-I	05-FEB-08	E601	4.1	1.5	<0.5	1.1	0.5	<1	<0.5	3.7	<0.5	66	<0.5
STU09-I	20-FEB-08	E601	4.1	1.7	<0.5	1.2	0.56	<1	<0.5	4.5	<0.5	75	<0.5
STU09-E	23-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
STU09-E	05-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TF5475-1^g	---	---	--	--	--	--	--	--	--	--	--	--	--
TF5475-2^h													
GTU09-I	16-JAN-08	E601	2	39	0.81	2.9	19	<1	5.8	46	<0.5	420	<0.5
GTU09-I	04-FEB-08	E601	1.3	21	0.5	2	13	<1	5.6	31	<0.5	270	<0.5
GTU09-E	16-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU09-E	04-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TF5475-3ⁱ	---	---	--	--	--	--	--	--	--	--	--	--	--

Notes on following page.

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

^a TFA-W was shut down in January after a year-long treatability test.

^b TFB did not operate during the month of February due to operating system upgrades.

^c TFC-E did not operate during the month of March due to the budget reduction.

^c TFD-HPD did not operate in January and February in preparation for the bioremediation pilot test and then subsequently was shut down due to the budget reduction.

^e TF406-NW did not operate during the month of March due to pump repairs.

^f TF518-N did not operate during the month of March due to the budget reduction.

^g TF5475-1 did not operate during the first two months of the reporting period due to computer malfunctions and then subsequently was shut down due to the budget reduction.

^h TF5475-2 did not operate during the month of March due to the budget reduction.

ⁱ TF5475-3 did not operate during the first two months of the reporting period due to high system pressure issues and then subsequently was shut down due to the budget reduction.

Notes:

CCl₄ = Carbon tetrachloride

CHCl₃ = Chloroform

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethylene

1,2-DCE = 1,2-Dichloroethylene

Freon 113 = Trichlorotrifluoroethane

PCE = Tetrachloroethylene

1,1,1-TCA = 1,1,1-Trichloroethane

TCE = Trichloroethene

Freon 11 = Trichlorofluoromethane

VOC = volatile organic compound

NA = not analyzed

Numbers in **BOLD** print indicate positive values above the detection limit.

Rows that are shaded indicate results were out of compliance.

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFA													
W-109	29-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	2	<0.5	<0.5	<0.5
W-262	29-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	0.56	<0.5	<0.5	<0.5
W-408	29-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	0.74	<0.5	<0.5	<0.5
W-415	29-JAN-08	E601	<0.5	1.1	0.78	<0.5	1.6	<1	<0.5	13	<0.5	1.1	<0.5
W-457	29-JAN-08	E601	<0.5	<0.5	0.93	<0.5	1.1	<1	<0.5	8.9	<0.5	0.51	<0.5
W-518	29-JAN-08	E601	<0.5	<0.5	7.2	<0.5	3.3	<1	<0.5	4.1	<0.5	0.56	<0.5
W-520 ^a	14-JAN-04	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	1.2	<0.5	<0.5	<0.5
W-522	29-JAN-08	E601	<0.5	<0.5	1.9	<0.5	1.3	<1	<0.5	3.4	<0.5	<0.5	<0.5
W-601 ^a	18-OCT-07	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	1.3	<0.5	<0.5	<0.5
W-602 ^a	14-JAN-04	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	1.4	<0.5	<0.5	<0.5
W-603 ^a	15-JAN-02	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	0.64	<0.5	<0.5	<0.5
W-605	29-JAN-08	E601	<0.5	1	0.91	<0.5	1.4	<1	<0.5	25	<0.5	1.2	<0.5
W-609 ^a	14-JAN-04	E601	<0.5	<0.5	0.92	<0.5	<0.5	<1	<0.5	0.65	<0.5	<0.5	<0.5
W-614	29-JAN-08	E601	<0.5	0.84	<0.5	<0.5	<0.5	<1	<0.5	8.6	<0.5	<0.5	<0.5
W-712	29-JAN-08	E601	3	2.9	1.1	<0.5	3.3	<1	<0.5	1.6	<0.5	3.3	<0.5
W-714	29-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	0.53	<1	<0.5	12	<0.5	<0.5	<0.5
W-903	29-JAN-08	E601	<0.5	<0.5	1.8	<0.5	1.4	<1	<0.5	7.5	<0.5	0.52	<0.5
W-904	29-JAN-08	E601	<0.5	<0.5	0.87	<0.5	1.3	<1	<0.5	8.6	<0.5	<0.5	<0.5
W-1001	29-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
W-1004	29-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	4.1	<0.5	<0.5	<0.5
W-1009	29-JAN-08	E601	1.4	5.9	0.95	<0.5	3.7	<1	0.65	13	<0.5	2.2	<0.5
TFA-E													
W-254	15-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	0.75	<1	<0.5	54	<0.5	1.2	<0.5
TFA-W													
W-404	12-MAR-08	E601	<0.5	<0.5	1	<0.5	1.4	<1	<0.5	7.1	<0.5	<0.5	<0.5
TFB													
W-357	09-JAN-08	E601	1.7	2.4	<0.5	<0.5	1.5	<1	5.7	1.4	<0.5	42	<0.5
W-610	09-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	1.9	<1	2.9	0.97	<0.5	2.4	<0.5
W-620	09-JAN-08	E601	<0.5	1.5	<0.5	<0.5	2.6	<1	5.3	2.2	<0.5	7.2	<0.5
W-621	09-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	0.51	<1	1.4	0.5	<0.5	4.2	<0.5
W-655	09-JAN-08	E601	<0.5	0.56	<0.5	<0.5	<0.5	<1	3.3	<0.5	<0.5	2.5	<0.5
W-704	09-JAN-08	E601	0.71	2.5	<0.5	<0.5	1.5	<1	6.2	3.6	<0.5	25	<0.5
W-1423	09-JAN-08	E601	0.8	4	<0.5	<0.5	3	<1	5.2	2.4	<0.5	10	<0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFC													
W-701	07-JAN-08	E601	<0.5	2.1	<0.5	<0.5	1.8	<1	32	0.51	<0.5	8.6	<0.5
W-1015	07-JAN-08	E601	<0.5	0.62	<0.5	<0.5	0.97	<1	2.1	1.2	<0.5	5.1	<0.5
W-1102	07-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	0.54	<1	7.6	<0.5	<0.5	2.5	<0.5
W-1103	07-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	1.7	<0.5
W-1104	07-JAN-08	E601	<0.5	0.82	<0.5	<0.5	<0.5	<1	4.1	12	<0.5	24	<0.5
W-1116	07-JAN-08	E601	<0.5	0.93	<0.5	<0.5	<0.5	<1	3.4	1.8	<0.5	2.8	<0.5
TFC-E													
W-368	08-JAN-08	E601	<0.5	11	<0.5	<0.5	0.82	<1	18	2.3	<0.5	16	3.7
W-413	08-JAN-08	E601	<0.5	15	<0.5	<0.5	1.2	<1	11	<0.5	<0.5	8.1	3.7
TFC-SE													
W-1213	08-JAN-08	E601	<0.5	3.2	<0.5	<0.5	2.6	<1	5.1	<0.5	<0.5	16	<0.5
W-2201	08-JAN-08	E601	<0.5	8.3	<0.5	<0.5	2.5	<1	15	0.64	<0.5	18	1.1
TFD													
W-351	16-JAN-08	E601	5.5	1	<0.5	0.98	4.1	<1	1	5.3	<0.5	110	1.2
W-653 ^a	04-APR-07	E601	49	14	<0.5	<0.5	1.6	<1	6	1.3	<0.5	1500	<0.5
W-906	16-JAN-08	E601	0.91	1.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	5.2	4.6
W-907-2	16-JAN-08	E601	1	2.4	<0.5	<0.5	1.1	<1	<0.5	1.4	<0.5	26	<0.5
W-1206	16-JAN-08	E601	1	1.4	<0.5	<0.5	0.61	<1	<0.5	0.5	<0.5	20	<0.5
W-1208	16-JAN-08	E601	3	2	<0.5	<0.5	<0.5	<1	0.57	0.75	<0.5	65	56
W-2011 ^a	04-APR-07	E601	3.1	2.2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	77	<0.5
W-2101 ^a	04-APR-07	E601	17	5.2	<0.5	<0.5	0.68	<1	2.7	0.83	<0.5	450	<0.5
W-2102 ^a	04-APR-07	E601	28	9.7	<0.5	<0.5	0.74	<1	3.6	0.77	<0.5	840	1.8
TFD-E													
W-1253 ^b	11-FEB-08	E601	6	6.2	<5	<5	16	<10	17	12	<5	2300	<5
W-1255	11-FEB-08	E601	4.4	2	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	260	<0.5
W-1301	16-JAN-08	E601	4.4	2.3	2.7	8.4	61	<1	<0.5	39	<0.5	320	<0.5
W-1303	16-JAN-08	E601	3.2	2.8	0.97	4.1	7.9	1.1	<0.5	7.8	<0.5	180	20
W-1306	16-JAN-08	E601	7.2	2	<0.5	<0.5	0.56	<1	0.86	2.1	<0.5	130	<0.5
W-1307	16-JAN-08	E601	3.3	0.7	<0.5	<0.5	<0.5	<1	<0.5	0.59	<0.5	46	<0.5
W-1404	16-JAN-08	E601	<0.5	1.6	1.4	9.4	3.5	1.2	<0.5	79	<0.5	100	<0.5
W-1550	16-JAN-08	E601	18	3.8	<0.5	<0.5	2.7	<1	1.5	11	<0.5	160	<0.5
W-2006	16-JAN-08	E601	1.8	2.9	5	17	110	2.3	<0.5	100	<0.5	750	<0.5
W-2203	16-JAN-08	E601	20	2.6	<0.5	<0.5	4.4	<1	4	9.2	<0.5	140	<0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFD-HPD^c													
W-1254 ^a	04-OCT-07	E601	0.88	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	14	<0.5
W-1551 ^a	04-OCT-07	E601	11	4.4	<0.5	<0.5	1.6	<1	3	3.1	<0.5	210	<0.5
W-1552 ^a	20-DEC-07	E601	<0.5	0.96	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	22	<0.5
W-1650 ^a	20-DEC-07	E601	7.1	1.8	<0.5	<0.5	<0.5	<1	2.6	<0.5	<0.5	260	<0.5
W-1651 ^a	20-DEC-07	E601	1.3	1.1	<0.5	<0.5	<0.5	<1	0.61	<0.5	<0.5	64	<0.5
W-1652 ^a	18-DEC-07	E601	3	2	<0.5	<0.5	<0.5	3.7	1	0.54	<0.5	420	<0.5
W-1653 ^a	18-DEC-07	E601	1.4	0.9	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	74	<0.5
W-1654 ^a	18-DEC-07	E601	<0.5	0.55	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	25	<0.5
W-1655 ^a	18-DEC-07	E601	0.62	0.94	<0.5	<0.5	<0.5	<1	<0.5	1	<0.5	49	<0.5
W-1656 ^a	18-DEC-07	E601	2.5	0.97	<0.5	<0.5	<0.5	<1	0.88	<0.5	<0.5	100	<0.5
W-1657 ^a	18-DEC-07	E601	12	5.1	<0.5	<0.5	<0.5	<1	4.2	0.52	<0.5	1200	<0.5
TFD-S													
W-1503	15-JAN-08	E601	1.2	1.9	<0.5	<0.5	1.9	<1	0.69	2.9	<0.5	46	<0.5
W-1504	15-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	9.6	1.3	1.9	16	<0.5	83	<0.5
W-1510	15-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	3	<1	0.64	4.5	<0.5	33	<0.5
TFD-SE													
W-314	07-JAN-08	E601	1.6	8.9	0.72	1.7	11	<1	5	21	<0.5	170	<0.5
W-1308	07-JAN-08	E601	<0.5	1.2	1.7	5.7	19	<1	<0.5	120	<0.5	130	<0.5
W-1403	07-JAN-08	E601	2.9	20	1.4	6.8	44	<1	4.4	95	<0.5	470	<0.5
W-1904 ^a	26-DEC-07	E601	<0.5	<0.5	0.54	0.67	5.8	<1	<0.5	39	<0.5	42	<0.5
W-2005	07-JAN-08	E601	1.9	1.6	2.2	6.3	56	<1	<0.5	84	<0.5	260	<0.5
SIP-ETC-201 ^a	26-DEC-07	E601	<0.5	0.55	0.59	1.1	8.5	<1	<0.5	59	<0.5	60	<0.5
TFD-SS													
W-1523	16-JAN-08	E601	5.2	3.7	0.61	2.1	15	<1	1.6	28	<0.5	170	<0.5
W-1601	16-JAN-08	E601	4	3.3	1.7	6.4	26	1.3	1.2	100	<0.5	270	<0.5
W-1602	16-JAN-08	E601	<0.5	0.9	<0.5	<0.5	0.6	<1	<0.5	1	<0.5	11	4
W-1603	16-JAN-08	E601	1.4	1.7	1.1	4	14	1.1	<0.5	30	<0.5	160	6.9
TFD-W													
W-1215	29-JAN-08	E601	<0.5	6	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	5.5	33
W-1216	29-JAN-08	E601	<0.5	4	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	5.7	70
W-1902	29-JAN-08	E601	0.69	3	<0.5	<0.5	<0.5	<1	0.63	<0.5	<0.5	7.9	110
TFE-E													
W-566	28-JAN-08	E601	0.64	6.9	<0.5	<0.5	3.1	<1	9.3	4.2	<0.5	55	<0.5
W-1109	28-JAN-08	E601	<0.5	0.52	<0.5	<0.5	39	<1	7.7	73	<0.5	200	<0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFE-E (cont.)													
W-1903 ^a	30-JUL-07	E601	<0.5	<0.5	<0.5	<0.5	23	<1	11	21	<0.5	36	<0.5
W-1909 ^a	30-JUL-07	E601	<0.5	<0.5	<0.5	<0.5	35	<1	10	48	<0.5	58	<0.5
W-2305 ^a	30-JUL-07	E601	<0.5	1.1	1.5	<0.5	99	<1	21	170	<0.5	380	<0.5
TFE-HS													
W-2012	28-JAN-08	E601	2	1.9	<0.5	<0.5	7.6	2.7	5.5	11	<0.5	250	<0.5
W-2105	28-JAN-08	E601	<0.5	0.94	<0.5	<0.5	1.6	<1	2.7	9.8	<0.5	260	<0.5
TFE-NW													
W-1211	29-JAN-08	E601	<0.5	1.3	<0.5	<0.5	<0.5	<1	0.98	<0.5	<0.5	11	<0.5
W-1409	29-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	0.8	<1	<0.5	1.3	<0.5	22	<0.5
TFE-SE													
W-359	09-JAN-08	E601	4.1	0.69	<0.5	<0.5	10	<1	9.3	8.7	<0.5	100	0.91
TFE-SW													
W-1518	09-JAN-08	E601	<0.5	0.62	<0.5	<0.5	2.1	2.9	1.4	1.2	<0.5	19	<0.5
W-1520	09-JAN-08	E601	7.4	5.2	<0.5	1.3	1.7	2.3	<0.5	5.2	<0.5	130	<0.5
W-1522	09-JAN-08	E601	8.4	4.3	0.6	0.81	6.4	7.8	0.92	5.5	<0.5	170	<0.5
TFE-W													
W-292	09-JAN-08	E601	<0.5	0.8	<0.5	<0.5	1.2	3.3	2.1	1.3	<0.5	23	<0.5
W-305	09-JAN-08	E601	<0.5	1.1	<0.5	<0.5	3.9	<1	31	9.4	<0.5	39	1.1
TFG-1													
W-1111	29-JAN-08	E601	3	10	<0.5	<0.5	1.3	<1	<0.5	1.6	<0.5	4	<0.5
TFG-N													
W-1806	29-JAN-08	E601	<0.5	1.6	<0.5	<0.5	<0.5	<1	<0.5	13	<0.5	2.6	<0.5
W-1807	29-JAN-08	E601	<0.5	1.7	<0.5	<0.5	1.4	<1	1.5	17	<0.5	5.3	<0.5
TF406													
W-1309	29-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	1.2	<0.5
W-1310	29-JAN-08	E601	<0.5	0.86	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	7.2	<0.5
GSW-445	29-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	2	<0.5
TF406-NW													
W-1801	28-JAN-08	E601	<0.5	2.1	<0.5	<0.5	<0.5	<1	6.7	0.7	<0.5	27	<0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TF518-N W-1410	23-JAN-08	E601	2.8	1.5	<0.5	<0.5	<0.5	<1	<0.5	0.83	<0.5	18	<0.5
TF518-PZ W-1615	07-FEB-08	E601	0.58	0.84	<0.5	<0.5	3	<1	<0.5	42	<0.5	130	<0.5
W-518-1913	07-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	7.5	<1	<0.5	18	<0.5	34	<0.5
W-518-1914	07-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	20	<0.5	5.6	<0.5
W-518-1915 ^b	07-FEB-08	E601	<25	<25	<25	<25	180	<50	<25	1500	<25	12000	<25
SVB-518-201	07-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	35	<0.5	8.5	<0.5
SVB-518-204	07-FEB-08	E601	<0.5	0.63	<0.5	<0.5	1.4	<1	<0.5	43	<0.5	550	<0.5
TF5475-1^c W-1302-2 ^a	18-JUL-07	E601	1.8	19	0.73	3.4	20	<1	7.4	41	<0.5	260	<0.5
TF5475-2 W-1108	16-JAN-08	E601	2	39	0.79	3.1	18	<1	5.9	45	<0.5	440	<0.5
W-1415	16-JAN-08	E601	0.71	3.9	<0.5	<0.5	8.4	<1	2.1	9.8	<0.5	76	<0.5
TF5475-3^c W-1604 ^a	21-AUG-07	E601	2.9	29	0.94	5.2	23	<1	17	45	<0.5	390	<0.5
W-1605 ^a	21-AUG-07	E601	1.3	13	<0.5	5.7	7.2	1.2	4	21	<0.5	210	<0.5
W-1608 ^a	21-AUG-07	E601	<0.5	9.5	0.71	3.2	2.1	3.2	1.8	7.1	<0.5	69	<0.5
W-1609 ^a	21-AUG-07	E601	<0.5	13	0.55	9.4	2.7	<1	0.94	7.9	<0.5	62	<0.5

Notes on following page.

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl ₄	CHCl ₃	1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCE	Freon 113	PCE	1,1,1-TCA	TCE	Freon 11
			<-	-	-	-	ug/L (ppb)	-	-	-	-	-	->

^aMost recent VOC sample results available.

^bElevated detection limit due to dilution.

^cTreatment Facility did not operate during reporting period. Please refer to Table A-1 for details

Notes:

CCl₄ = Carbon tetrachloride

CHCl₃ = Chloroform

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethene

1,2-DCE = 1,2-Dichloroethene (total)

Freon 113 = Freon 113

PCE = Tetrachloroethene

1,1,1-TCA = 1,1,1-Trichloroethane

TCE = Trichloroethene

Freon 11 = Trichlorofluoromethane

VOC = volatile organic compound

Numbers in **BOLD** print indicate positive values above the detection limit.

Table A-3. VOC analyses of vapor samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE PPM(V/V)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
VTFD-ETCS^a													
W-1904 ^b	26-JUN-07	TO15DI	<0.02	<0.02	<0.02	<0.02	0.12	<0.02	<0.02	2.2	<0.02	0.64	<0.02
W-ETC-2003 ^b	12-JUL-07	TO15DI	<0.008	<0.008	<0.008	<0.008	0.022	<0.008	<0.008	1.1	<0.008	0.26	<0.008
W-ETC-2004A ^b	12-JUL-07	TO15DI	<0.01	<0.01	<0.01	<0.01	0.021	<0.01	<0.01	1.6	<0.01	0.5	<0.01
W-ETC-2004B ^b	12-JUL-07	TO15DI	<0.02	<0.02	<0.02	<0.02	0.18	<0.02	<0.02	3.3	<0.02	1.7	<0.02
SIP-ETC-201 ^b	12-JUL-07	TO15DI	<0.01	<0.01	0.023	<0.01	0.054	<0.01	<0.01	1.6	<0.01	0.8	<0.01
VTFD-HPD^c													
W-1552 ^b	13-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.011	<0.005	0.2	<0.005
W-1650 ^b	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1651 ^b	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1652 ^b	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1653 ^b	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1654 ^b	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1655 ^b	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1656 ^b	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1657 ^b	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-HPA-002B ^b	03-JUL-07	TO15DI	0.032	0.024	<0.0057	<0.0057	0.011	<0.0057	<0.0057	0.1	<0.0057	1	<0.0057
VTFD-HS^d													
W-653 ^b	15-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.093	<0.005
W-2011 ^b	15-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.081	<0.005
W-2101 ^b	15-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.061	<0.005
W-2102 ^b	15-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.11	<0.005
VTFE-ELM^e													
W-1903 ^b	16-AUG-07	TO15DI	<0.0084	<0.0084	<0.0084	<0.0084	1.4	<0.0084	0.36	1.4	<0.0084	1.5	<0.0084
W-1909 ^b	16-JUL-07	TO15DI	<0.008	<0.008	<0.008	<0.008	1.2	<0.008	0.36	0.04	<0.008	0.19	<0.008
W-2305 ^b	16-AUG-07	TO15DI	<0.005	<0.005	<0.005	<0.005	0.014	<0.005	0.016	0.064	<0.005	0.069	<0.005
W-543-001	05-FEB-08	TO15DI	<0.005	<0.005	<0.005	<0.005	0.0096	<0.005	<0.005	0.13	<0.005	0.038	<0.005
W-543-003	05-FEB-08	TO15DI	<0.005	0.0069	<0.005	<0.005	0.052	<0.005	0.012	0.11	<0.005	0.29	<0.005
W-543-1908	05-FEB-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.015	<0.005	0.023	<0.005
VTFE-HS													
W-ETS-2008A	30-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.031	<0.005	0.057	<0.005
W-ETS-2008B	05-FEB-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.015	0.14	<0.005	0.4	<0.005
W-ETS-2009	30-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.062	<0.005	0.092	<0.005
W-ETS-2010A	30-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.046	<0.005	0.096	<0.005
W-ETS-2010B	30-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	0.021	0.0054	0.058	0.37	<0.005	1	<0.005
W-2105	30-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	0.014	<0.005	0.01	0.022	<0.005	0.13	<0.005

Table A-3. VOC analyses of vapor samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl ₄ <-	CHCl ₃ -	1,1-DCA -	1,2-DCA -	1,1-DCE PPM(V/V)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
VTF406-HS													
W-217	03-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.013	<0.005	0.0096	<0.005
W-514-2007A	03-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0066	<0.005	0.0089	<0.005
W-514-2007B	03-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.014	<0.005	0.02	<0.005
VTF511													
W-274 ^b	04-OCT-06	TO15DI	0.14	0.02	<0.0062	<0.0062	0.07	<0.0062	0.014	0.33	<0.0062	6.1	0.38
W-1517 ^b	20-DEC-07	TO15DI	0.0066	<0.005	<0.005	<0.005	0.0068	<0.005	<0.005	0.022	<0.005	0.65	0.016
W-2204 ^b	01-AUG-07	TO15DI	0.089	0.069	<0.02	0.091	0.039	<0.02	<0.02	0.26	<0.02	3.4	<0.02
W-2206 ^b	01-AUG-07	TO15DI	0.024	0.057	<0.02	0.25	<0.02	<0.02	<0.02	0.27	<0.02	2.9	<0.02
W-2207A	26-FEB-08	TO15DI	<0.005	<0.005	<0.005	<0.005	0.0066	<0.005	<0.005	0.0064	<0.005	1.9	<0.005
W-2207B	26-FEB-08	TO15DI	0.023	0.038	<0.02	<0.02	0.044	<0.02	<0.02	0.03	<0.02	15	<0.02
W-2208A	26-FEB-08	TO15DI	0.18	0.047	<0.02	<0.02	0.37	<0.02	0.032	0.11	<0.02	15	0.75
W-2208B	26-FEB-08	TO15DI	1.3	<0.25	0.3	<0.25	9	<0.25	0.48	2	<0.25	100	0.27
W-2205 ^b	01-AUG-07	TO15DI	0.087	0.14	<0.031	0.035	0.056	<0.031	<0.031	0.19	<0.031	5.5	<0.031
VTF518-PZ^f													
W-1615	15-JAN-08	TO15DI	0.1	<0.025	<0.025	<0.025	0.96	<0.025	0.96	8.7	<0.025	17	<0.025
W-518-1913	15-JAN-08	TO15DI	0.012	0.006	0.007	<0.005	1.7	<0.005	0.063	2	<0.005	4.5	<0.005
W-518-1914	15-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.98	<0.005	0.28	<0.005
W-518-1915	15-JAN-08	TO15DI	<0.0066	<0.0066	<0.0066	<0.0066	0.29	<0.0066	0.01	1.6	<0.0066	5.9	<0.0066
SVB-518-201	15-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	0.016	<0.005	<0.005	3.9	<0.005	0.34	<0.005
SVB-518-204	15-JAN-08	TO15DI	<0.02	<0.02	<0.02	<0.02	0.051	<0.02	<0.02	2.4	<0.02	15	<0.02
VTF5475^g													
W-ETS-507 ^b	06-SEP-07	TO15DI	<0.005	0.85	<0.005	0.62	<0.005	<0.005	<0.005	0.15	<0.005	0.67	<0.005
W-1605 ^b	06-SEP-07	TO15DI	0.0069	0.17	<0.005	0.15	0.11	<0.005	0.036	0.1	<0.005	0.85	<0.005
W-1608 ^b	06-SEP-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0061	<0.005
W-2211 ^b	12-OCT-07	TO15DI	<0.005	0.49	0.012	0.15	0.14	<0.005	0.01	0.11	<0.005	1.2	<0.005
W-2212 ^b	12-OCT-07	TO15DI	0.056	0.75	0.024	0.039	1.1	<0.005	0.16	0.66	<0.005	3.8	<0.005
W-2302 ^b	05-OCT-07	TO15DI	0.032	0.47	0.022	<0.017	0.73	<0.017	0.063	0.86	<0.017	11	<0.017
W-2303 ^b	05-OCT-07	TO15DI	0.009	0.88	0.038	0.083	0.4	<0.005	0.0088	0.36	<0.005	3.7	<0.005
SVI-ETS-504 ^b	12-OCT-07	TO15DI	<0.005	0.32	0.0052	0.14	0.073	<0.005	<0.005	0.064	<0.005	0.34	<0.005

Notes on following page.

Table A-3. VOC analyses of influent and effluent samples by treatment facility.

^a VTFD-ETCS did not operate during January and February due to liquid ring blower failure and then subsequently was shut down in March due to the budget reduction.

^b Most recent VOC vapor sample results available.

^c VTFD-HPD did not operate in January and February in preparation for the bioremediation pilot test and then subsequently was shut down due to the budget reduction.

^d VTFD-HS did not operate during January and February due to liquid ring blower failure and then subsequently was shut down due to the budget reduction.

^e VTFE-ELM did not operate during February due to blower motor failure and then subsequently was shut down due to the budget reduction.

^f VTF518-PZ did not operate during the month of March due to the budget reduction.

^g VTF5475 did not operate during January and February due to mixed waste issues and then subsequently was shut down due to the budget reduction.

Notes:

CCl₄ = Carbon tetrachloride

CHCl₃ = Chloroform

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethylene

1,2-DCE = 1,2-Dichloroethylene

Freon 113 = Trichlorotrifluoroethane

PCE = Tetrachloroethylene

1,1,1-TCA = 1,1,1-Trichloroethane

TCE = Trichloroethene

Freon 11 = Trichlorofluoromethane

VOC = volatile organic compound

NA = not analyzed

Numbers in **BOLD** print indicate positive values above the detection limit.

Rows that are shaded indicate results were out of compliance.

Table A-4. Chromium analyses of influent, effluent and receiving water samples by treatment facility.

Treatment Facility	Sample Station	Date Sampled	Chromium (total)^a mg/L (ppm)	Hexavalent Chromium mg/L (ppm)
TFA	TFA-I001	15-JAN-08	0.012	0.014
	TFA-E001	15-JAN-08	0.012	0.013
TFA-E	W-254	15-JAN-08	0.0097	NA
	STU06-E	15-JAN-08	0.0057	0.0039
TFA-W	TFA-W-E	14-JAN-08	0.016	NA
TFB	TFB-I002	09-JAN-08	0.022	NA
	TFB-E002	09-JAN-08	0.015	0.015
	TFB-E002	10-MAR-08	0.015	NA
	TFB-R002	09-JAN-08	0.016	NA
TFC	TFC-I003	07-JAN-08	0.024	NA
	TFC-E003	07-JAN-08	0.015	0.014
	TFC-E003	04-FEB-08	0.016	NA
	TFC-E003	05-MAR-08	0.017	NA
	TFC-R003	07-JAN-08	0.015	NA
TFC-E	MTU1-I	08-JAN-08	0.042	NA
	MTU1-E	08-JAN-08	0.0091	0.0078
	MTU1-E	11-FEB-08	0.011	NA
TFC-SE	PTU1-I	08-JAN-08	0.033	NA
	PTU1-E	08-JAN-08	0.0059	<0.005
	PTU1-E	04-FEB-08	0.011	NA
	PTU1-E	05-MAR-08	0.0073	NA
TFD	TFD-I004	16-JAN-08	0.012	NA
	TFD-E004	16-JAN-08	0.011	0.011
TFD-E	PTU8-I	16-JAN-08	0.0072	NA
	PTU8-E	16-JAN-08	0.0063	0.0064
TFD-S	PTU2-I	15-JAN-08	0.012	NA
	PTU2-E	15-JAN-08	0.01	0.011
TFD-SE	PTU11-I	07-JAN-08	0.012	NA
	PTU11-E	07-JAN-08	0.011	0.01
TFD-SS	PTU12-I	16-JAN-08	0.012	NA
	PTU12-E	16-JAN-08	0.01	0.011
TFD-W	PTU6-I	29-JAN-08	0.014	NA
	PTU6-E	29-JAN-08	0.011	0.013
TFE-E	PTU3-I	28-JAN-08	0.011	NA
	PTU3-E	28-JAN-08	0.0089	0.011
TFE-HS	GTU07-I	28-JAN-08	0.0079	NA
	GTU07-E	28-JAN-08	<0.005	<0.002
TFE-NW	PTU9-I	29-JAN-08	0.011	NA
	PTU9-E	29-JAN-08	0.0089	0.011
TFE-SE	MTU04-I	09-JAN-08	0.0093	NA
	MTU04-E	09-JAN-08	0.008	0.0092

Table A-4. Chromium analyses of influent, effluent and receiving water samples by treatment facility.

Treatment Facility	Sample Station	Date Sampled	Chromium (total)^a mg/L (ppm)	Hexavalent Chromium mg/L (ppm)
TFE-SW	MTU03-I	09-JAN-08	0.0054	NA
	MTU03-E	09-JAN-08	0.0069	0.0051
TFE-W	MTU05-I	09-JAN-08	0.011	NA
	MTU05-E	09-JAN-08	0.009	0.01
TFG-1	GTU01-I	29-JAN-08	0.0073	NA
	GTU01-E	29-JAN-08	0.0056	0.0042
	TFG-ASW	29-JAN-08	0.013	NA
TFG-N	MTU02-I	29-JAN-08	0.0095	NA
	MTU02-E	29-JAN-08	0.0085	0.01
TF406	PTU5-I	29-JAN-08	0.013	NA
	PTU5-E	29-JAN-08	0.011	0.013
TF406-NW	GTU03-I	28-JAN-08	0.0018	NA
	GTU03-E	28-JAN-08	<0.005	<0.002
TF518-N	W-1410	23-JAN-08	0.0054	NA
	STU09-E	23-JAN-08	<0.005	<0.002
TF5475-2	GTU09-I	16-JAN-08	0.016	NA
	GTU09-E	16-JAN-08	0.011	0.012

^aA discharge limit of 0.050 ppm is set for total chromium during the dry season (April 1-November 30), and no limit is set for total chromium for the wet season (December 1-March 31); however, a limit of 0.022 ppm hexavalent chromium applies during the wet season. Discharge limits are defined in the Explanation of Significant Differences for metals discharge limits (April 1997).

Shaded values exceeded the discharge limit.

Table A-5. Bioassay, turbidity, and chloride analyses of influent and effluent samples by treatment facility.

Treatment Facility	Sample Station	Date Sampled	Aquatic Bioassay^a Percent Survival	Turbidity Nephelometric Turbidity Units (NTU)	Chloride (mg/L)
TFA	TFA-I001	15-JAN-08	NA	NA	76
TFA	TFA-E001	15-JAN-08	100 (100)	0.11	76
TFA-E	STU06-E	15-JAN-08	100 (100)	<0.1	54
TFB	TFB-E002	09-JAN-08	100 (100)	<0.1	79
TFC	TFC-E003	07-JAN-08	100 (100)	<0.1	120
TFC-E	MTU1-E	08-JAN-08	100 (100)	0.16	120
TFC-SE	PTU1-E	08-JAN-08	100 (100)	0.15	76
TFD	TFD-E004	16-JAN-08	100 (100)	0.16	290
TFD-E	PTU8-E	16-JAN-08	100 (100)	0.31	330
TFD-S	PTU2-E	15-JAN-08	100 (100)	<0.1	67
TFD-SE	PTU11-E	07-JAN-08	100 (100)	<0.1	180
TFD-SS	PTU12-E	16-JAN-08	100 (100)	0.11	140
TFD-W	PTU6-E	29-JAN-08	100 (100)	<0.1	170
TFE-E	PTU3-E	28-JAN-08	100 (100)	0.1	100
TFE-HS	GTU07-E	28-JAN-08	100 (100)	0.12	55
TFE-NW	PTU9-E	29-JAN-08	100 (100)	<0.1	90
TFE-SE	MTU04-E	09-JAN-08	100 (100)	0.17	81
TFE-SW	MTU03-E	09-JAN-08	100 (100)	0.3	59
TFE-W	MTU05-E	09-JAN-08	100 (100)	0.21	57
TFG-1	GTU01-E	29-JAN-08	100 (100)	0.16	34
TFG-N	MTU02-E	29-JAN-08	100 (100)	0.16	16
TF406	PTU5-E	29-JAN-08	100 (100)	0.11	65
TF406-NW	GTU03-E	28-JAN-08	100 (100)	0.11	46
TF518-N	STU09-E	23-JAN-08	100 (100)	<0.1	53
TF5475-2	GTU09-E	16-JAN-08	100 (100)	0.17	91

^aTest species was Fathead minnow and the test duration was 96 hours.

Percent survival in the control group samples shown in parentheses.

Note: NA = not applicable

Table A-6. Metals analyses of influent and effluent samples by treatment facility as compared to the instantaneous Maximum.

		Antimony	Arsenic	Beryllium	Boron	Cadmium	Copper	Cyanide	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
		<-	-	-	-	-	-	mg/L (ppm)	-	-	-	-	-	-	-	-	->
Wet Season^a		NA	0.01	NA	NA	0.002	0.0236	NA	NA	0.006	NA	0.002	0.3	0.01	0.1	NA	0.220
(December 1 - March 31)																	
Sample Station	Date Sampled																
TFA																	
TFA-I001	15-JAN-08	<0.005	<0.005	<0.0002	0.73	<0.001	<0.005	NA	<0.05	<0.005	<0.01	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFA-E001	15-JAN-08	<0.005	<0.005	<0.0002	0.74	<0.001	<0.005	NA	<0.05	<0.005	<0.01	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFA-E																	
STU06-E	15-JAN-08	<0.005	<0.005	<0.005	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFA-W																	
TFA-W-E	14-JAN-08	NA	<0.002	NA	NA	<0.005	<0.01	NA	NA	<0.002	NA	<0.0002	<0.005	NA	<0.01	NA	<0.05
TFB																	
TFB-E002	09-JAN-08	<0.005	<0.005	<0.005	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFC																	
TFC-E003	07-JAN-08	<0.005	<0.005	<0.005	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFC-E																	
MTU1-E	08-JAN-08	<0.005	<0.005	<0.005	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFC-SE																	
PTU1-E	08-JAN-08	<0.005	<0.005	<0.005	NA	<0.001	0.0056	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFD																	
TFD-E004	16-JAN-08	<0.005	<0.005	<0.005	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFD-E																	
PTU8-E	16-JAN-08	<0.005	<0.005	<0.005	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFD-S																	
PTU2-E	15-JAN-08	<0.005	<0.005	<0.005	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFD-SE																	
PTU11-E	07-JAN-08	<0.005	<0.005	<0.005	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFD-SS																	
PTU12-E	16-JAN-08	<0.005	<0.005	<0.005	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFD-W																	
PTU6-E	29-JAN-08	<0.005	<0.005	<0.005	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFE-E																	
PTU3-E	28-JAN-08	<0.005	<0.005	<0.005	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFE-HS																	
GTU07-E	28-JAN-08	<0.005	<0.005	<0.005	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01

Table A-6. Metals analyses of influent and effluent samples by treatment facility as compared to the instantaneous Maximum.

		Antimony	Arsenic	Beryllium	Boron	Cadmium	Copper	Cyanide	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
		<-	-	-	-	-	-	mg/L (ppm)	-	-	-	-	-	-	-	-	->
Wet Season ^a (December 1 - March 31)		NA	0.01	NA	NA	0.002	0.0236	NA	NA	0.006	NA	0.002	0.3	0.01	0.1	NA	0.220
Sample Station	Date Sampled																
TFE-NW																	
PTU9-E	29-JAN-08	<0.005	<0.005	<0.005	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFE-SE																	
MTU04-E	09-JAN-08	<0.005	<0.005	<0.005	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFE-SW																	
MTU03-E	09-JAN-08	<0.005	<0.005	<0.005	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFE-W																	
MTU05-E	09-JAN-08	<0.005	<0.005	<0.005	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFG-1																	
GTU01-E	29-JAN-08	<0.005	<0.005	<0.005	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFG-N																	
MTU02-E	29-JAN-08	<0.005	<0.005	<0.005	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TF406																	
PTU5-E	29-JAN-08	<0.005	<0.005	<0.005	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TF406-NW																	
GTU03-E	28-JAN-08	<0.005	<0.005	<0.005	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TF518-N																	
STU09-E	23-JAN-08	<0.005	<0.005	<0.005	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	0.29
TF5475-2																	
GTU09-E	16-JAN-08	<0.005	<0.005	<0.005	NA	<0.001	<0.005	NA	NA	<0.005	NA	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01

^aThe Explanation of Significant Differences for metals discharge identifies the Instantaneous Maximum concentrations for the wet season (December 1 - March 30).

NA = not applicable

Numbers in **BOLD** print indicate positive values above the detection limit.

Shaded values exceeded the discharge limit.

Table A-7. Radiological analyses of effluent and receiving waters by treatment facility.

Treatment Facility	Sample Station	Date Sampled	Gross Alpha <-	Gross Beta pCi/L	Tritium ->
TFA	TFA-E001	15-JAN-08	4.44	<3	<100
TFA-E	STU06-E	15-JAN-08	4.51	<3	<100
TFB	TFB-E002	09-JAN-08	5.43	<3	<100
TFB	TFB-R002	09-JAN-08	3.09	<3	102
TFC	TFC-E003	07-JAN-08	<2	<3	137
TFC	TFC-R003	07-JAN-08	3.25	<3	186
TFC-E	MTU1-E	08-JAN-08	<2	<3	327
TFC-SE	PTU1-E	08-JAN-08	<2	<3	247
TFD	TFD-E004	16-JAN-08	7.47	<3	<100
TFD-E	PTU8-E	16-JAN-08	8.76	<3	<100
TFD-S	PTU2-E	15-JAN-08	3.62	<3	<100
TFD-SE	PTU11-E	07-JAN-08	3.53	<3	349
TFD-SS	PTU12-E	16-JAN-08	6.18	3.02	180
TFD-W	PTU6-E	29-JAN-08	7.52	<3	149
TFE-E	PTU3-E	28-JAN-08	<2	<3	123
TFE-HS	GTU07-E	28-JAN-08	2.34	<3	<100
TFE-NW	PTU9-E	29-JAN-08	4.59	<3	<100
TFE-SE	MTU04-E	09-JAN-08	<2	<3	<100
TFE-SW	MTU03-I	09-JAN-08	NA	NA	1750
TFE-SW	MTU03-E	09-JAN-08	4.02	3.15	1950
TFE-W	MTU05-E	09-JAN-08	6.01	<3	126
TFG-1	GTU01-E	29-JAN-08	2.34	<3	224
TFG-1	TFG-ASW	29-JAN-08	3.25	3.14	<100
TFG-N	MTU02-E	29-JAN-08	<2	<3	139
TF406	PTU5-E	29-JAN-08	<2	<3	<100
TF406-NW	GTU03-E	28-JAN-08	4.71	<3	102
TF518-N	W-1410	24-JAN-08	NA	NA	989
	W-1410	30-JAN-08	NA	NA	3370
	W-1410	05-FEB-08	NA	NA	4110
	W-1410	12-FEB-08	NA	NA	4020
TF518-N	STU09-I	20-FEB-08	NA	NA	3990
TF518-N	STU09-E	23-JAN-08	<2	3.52	NA
	STU09-E	24-JAN-08	NA	NA	1050
	STU09-E	30-JAN-08	NA	NA	3460
	STU09-E	05-FEB-08	NA	NA	4200
	STU09-E	12-FEB-08	NA	NA	4120
TF5475-2	GTU09-E	16-JAN-08	<2	<3	664

Numbers in BOLD print indicate positive values above the detection limit.

Explanation of Abbreviations

TFA-I001 is a sampling port located immediately prior to the TFA Treatment System.

TFA-E001 is a sampling port located immediately after the TFA Treatment System, at the beginning of the discharge pipeline.

TFA receiving water is routinely sampled at the TFG-ASW location.

TFA-W-I is an influent sampling port prior to the sediment bag filter immediately following W-404.

TFA-W-E is an effluent sampling port immediately following the sediment bag filter; the water is then discharged to the Livermore Water Reclamation Plant (LWRP).

TFB-I002 is a sampling port located immediately prior to the TFB Treatment System.

TFB-E002 is a sampling port located immediately after the TFB Treatment System, at the beginning of the discharge pipeline.

TFB-R002 is a sampling station in the drainage ditch north of TFB, located approximately 75 ft downstream from the discharge point.

TFC-I003 is a sampling port located immediately prior to the TFC Treatment System.

TFC-E003 is a sampling port located immediately after the TFC Treatment System, at the beginning of the discharge pipeline.

TFC-R003 is a sampling station in Arroyo Las Positas, located approximately 75 ft downstream from the TFC discharge point.

TFD-I004 is a sampling port located immediately prior to the TFD Treatment System.

TFD-E004 is a sampling port located immediately after the TFD Treatment System, prior to discharge to the Drainage Retention Basin or to the underground discharge pipeline leading to Arroyo Las Positas.

TFD-R004 is now combined with and collected at the TFC-R003 location. Results are reported under TFC-R003, as approved by the RWQCB.

CRD1-I is a sampling port located immediately prior to the catalytic column in the Catalytic Reductive Dehalogenation treatment unit 1 (CRD1).

CRD1-E is the effluent from the catalytic column in the Catalytic Reductive Dehalogenation treatment unit 1 (CRD1) and then reinjected at W-1302.

CRD2-I is a sampling port located immediately prior to the catalytic columns in the Catalytic Reductive Dehalogenation treatment unit 2 (CRD2).

CRD2-E is the effluent from the last catalytic column in the Catalytic Reductive Dehalogenation treatment unit 2 (CRD2) and then reinjected at W-1610.

GTU01-I is a sampling port located immediately prior to GTU01, which is currently operating in the TFG-1 area.

GTU01-E is a sampling port located immediately after GTU01, which is currently operating in the TFG-1 area.

GTU01 receiving water is routinely sampled at the TFG-ASW location.

GTU03-I is a sampling port located immediately prior to GTU03, which is currently operating in the TF406 Northwest area.

GTU03-E is a sampling port located immediately after GTU03, which is currently operating in the TF406 Northwest area.

GTU03 receiving water is routinely sampled at the TFC-R003 location.

GTU07-I is a sampling port located immediately prior to GTU07, which is currently operating in the TFE Hotspot area.

GTU07-E is a sampling port located immediately after GTU07, which is currently operating in the TFE Hotspot area.

GTU07 receiving water is routinely sampled at the TFC-R003 location.

GTU09-I is a sampling port located immediately prior to GTU09, which is currently operating in the TF5475 area.

GTU09-E is a sampling port located immediately after GTU09, which is currently operating in the TF5475 area.

GTU09 receiving water is routinely sampled at the TFC-R003 location.

MTU02-I is a sampling port located immediately prior to MTU02, which is currently operating in the TFG North area.

MTU02-E is a sampling port located immediately after MTU02, which is currently operating in the TFG North area.

MTU02 receiving water is routinely sampled at the TFC-R003 location.

MTU03-I is a sampling port located immediately prior to MTU03, which is currently operating in the TFE Southwest area.

MTU03-E is a sampling port located immediately after MTU03, which is currently operating in the TFE Southwest area.

MTU03 receiving water is routinely sampled at the TFC-R003 location.

MTU04-I is a sampling port located immediately prior to MTU04, which is currently operating in the TFE Southeast area.

MTU04-E is a sampling port located immediately after MTU04, which is currently operating in the TFE Southeast area.

MTU04 receiving water is routinely sampled at the TFC-R003 location.

MTU05-I is a sampling port located immediately prior to MTU05, which is currently operating in the TFE West area.

MTU05-E is a sampling port located immediately after MTU05, which is currently operating in the TFE West area.

MTU05 receiving water is routinely sampled at the TFC-R003 location.

Explanation of Abbreviations

MTU1-I is a sampling port located immediately prior to MTU1, which is currently operating in the TFC East area.

MTU1-E is a sampling port located immediately after MTU1, which is currently operating in the TFC East area.

MTU1 receiving water is routinely sampled at the TFC-R003 location.

PTU1-I is a sampling port located immediately prior to PTU-1, which is currently operating in the TFC Southeast area.

PTU1-E is a sampling port located immediately after PTU-1, which is currently operating in the TFC Southeast area.

PTU1 receiving water is routinely sampled at the TFC-R003 location.

PTU2-I is a sampling port located immediately prior to PTU-2, which is currently operating in the TFD South area.

PTU2-E is a sampling port located immediately after PTU-2, which is currently operating in the TFD South area.

PTU2 receiving water is routinely sampled at TFC-R003 during the wet season.

PTU3-I is a sampling port located immediately prior to PTU-3, which is currently operating in the TFE East area.

PTU3-E is a sampling port located immediately after PTU-3, which is currently operating in the TFE East area.

PTU3 receiving water is routinely sampled at the TFC-R003 location.

PTU5-I is a sampling port located immediately prior to PTU-5, which is currently operating in the TF406 extraction location.

PTU5-E is a sampling port located immediately after PTU-5, which is currently operating in the TF406 extraction location.

PTU5 receiving water is routinely sampled at the TFC-R003 location.

PTU6-I is a sampling port located immediately prior to PTU-6, which is currently operating in the TFD West area.

PTU6-E is a sampling port located immediately after PTU-6, which is currently operating in the TFD West area.

PTU6 receiving water is routinely sampled at the TFC-R003 location.

PTU8-I is a sampling port located immediately prior to PTU-8, which is currently operating in the TFD East area.

PTU8-E is a sampling port located immediately after PTU-8, which is currently operating in the TFD East area.

PTU8 receiving water is routinely sampled at the TFC-R003 location.

PTU9-I is a sampling port located immediately prior to PTU-9, which is currently operating in the TFE Northwest area.

PTU9-E is a sampling port located immediately after PTU-9, which is currently operating in the TFE Northwest area.

PTU9 receiving water is routinely sampled at the TFC-R003 location.

PTU10-I is a sampling port located immediately prior to PTU-10, which is currently operating in the TFD Helipad area.

PTU10-E is a sampling port located immediately after PTU-10, which is currently operating in the TFD Helipad area.

PTU10 receiving water is routinely sampled at the TFC-R003 location.

PTU11-I is a sampling port located immediately prior to PTU-11, which is currently operating in the TFD Southeast area.

PTU11-E is a sampling port located immediately after PTU-11, which is currently operating in the TFD Southeast area.

PTU11 receiving water is routinely sampled at the TFC-R003 location.

PTU12-I is a sampling port located immediately prior to PTU-12, which is currently operating in the TFD Southshore area.

PTU12-E is a sampling port located immediately after PTU-12, which is currently operating in the TFD Southshore area.

PTU12 receiving water is routinely sampled at the TFC-R003 location.

STU06-I is a sampling port located immediately prior to STU06, which is operating in the TFA East area.

STU06-E is a sampling port located immediately after STU06, which is operating in the TFA East area.

STU06 receiving water is routinely sampled at the TFG-ASW location.

STU09-I is a sampling port located immediately prior to STU09, which is currently operating in the TF518-North area.

STU09-E is a sampling port located immediately after STU09, which is currently operating in the TF518-North area.

STU09 receiving water is routinely sampled at the TFC-R003 location.

Attachment B

Self-Monitoring Reports

Self-Monitoring Report

LLNL Treatment Facility A (TFA)

AREA TFA

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

December	<u>29</u>	<u>30</u>	<u>31</u>																		
January	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	10	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>						
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>31</u>					

Total monthly time facility operated (hours): 765

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>01-15-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>18.3</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-408	1,048,400	27.9
W-109	613,000	0.0
W-457	600,500	11.6
W-522	1,230,700	28.6
W-602	0	0.0
W-614	534,600	11.7
W-712	332,100	7.4
W-714	282,500	6.0
W-904	1,070,900	22.7
W-415	1,661,900	36.3
W-518	403,300	9.0
W-601	0	0.0
W-603	0	0.0
W-520	0	0.0
W-605	429,200	9.9
W-262	100	0.0
W-609	0	0.0
W-903	1,024,900	28.5
W-1004	545,200	12.0
W-1009	1,075,700	23.4
W-1001	148,500	3.3
Total:	<u>11,001,500</u>	<u>238.3</u>

Self-Monitoring Report (cont'd)
LLNL Treatment Facility A (TFA)
AREA TFA

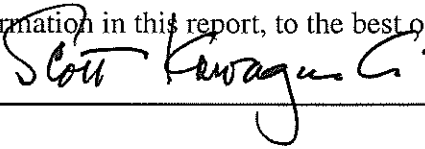
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>West Perimeter Drainage Channel</u>	<u>TFB-R002</u>	<u>5,767,100</u>
<u>Arroyo Seco</u>	<u>TFG-ASW</u>	<u>5,234,400</u>

6. Comments:

Facility secured for maintenance on 1-9-08. Maintenance completed on 1-11-08 and facility restarted. W-109 started on 1-17-08 and west pipeline well flows adjusted in conjunction with securing of TFA-W facility.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 01-31-2008

Self-Monitoring Report

LLNL Treatment Facility A (TFA)

AREA TFA

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 643

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 02-04-2008
 Influent pH: 7.5
 Effluent pH: 7.5
 Effluent Temperature (°C): 18.3

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-408	853,000	25.3
W-109	1,002,700	30.0
W-457	276,100	9.9
W-522	1,021,000	26.1
W-602	0	0.0
W-614	447,300	11.6
W-712	280,300	7.1
W-714	226,700	6.2
W-904	682,400	20.1
W-415	1,477,200	35.4
W-518	358,300	9.0
W-601	0	0.0
W-603	0	0.0
W-520	0	0.0
W-605	377,400	9.8
W-262	0	0.0
W-609	0	0.0
W-903	901,500	27.2
W-1004	455,400	11.9
W-1009	905,200	23.2
W-1001	118,100	3.6
Total:	<u>9,382,600</u>	<u>256.4</u>

5. Discharge Information:

Self-Monitoring Report (cont'd)
LLNL Treatment Facility A (TFA)
AREA TFA

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>West Perimeter Drainage Channel</u>	<u>TFB-R002</u>	<u>4,916,400</u>
<u>Arroyo Seco</u>	<u>TFG-ASW</u>	<u>4,466,200</u>

6. Comments:

Facility down on 2-11-08 for interlock checks. Restarted on 2-13-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 02-29-2008

Self-Monitoring Report

LLNL Treatment Facility A (TFA)

AREA TFA

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

March **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
 16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29** **30** **31**

Total monthly time facility operated (hours): 743

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 03-05-2008
 Influent pH: 7.5
 Effluent pH: 7.5
 Effluent Temperature (°C): 18.6

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-408	1,161,700	25.4
W-109	1,353,500	29.9
W-457	292,900	6.6
W-522	1,222,100	27.0
W-602	0	0.0
W-614	519,100	11.7
W-712	321,000	7.3
W-714	269,600	5.9
W-904	1,006,600	21.9
W-415	1,600,600	36.2
W-518	414,200	9.0
W-601	0	0.0
W-603	0	0.0
W-520	0	0.0
W-605	436,000	9.8
W-262	0	0.0
W-609	0	0.0
W-903	778,800	26.9
W-1004	526,500	11.9
W-1009	1,059,300	23.7
W-1001	167,400	3.7
Total:	<u>11,129,300</u>	<u>256.9</u>

5. Discharge Information:

Self-Monitoring Report (cont'd)
LLNL Treatment Facility A (TFA)
AREA TFA

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>West Perimeter Drainage Channel</u>	<u>TFB-R002</u>	<u>5,245,600</u>
<u>Arroyo Seco</u>	<u>TFG-ASW</u>	<u>5,883,700</u>

6. Comments:

W-903 down on 3-21-08 due to pump failure.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 03-31-2008

Self-Monitoring Report
LLNL Solar Treatment Unit 06 (STU06)
AREA TFA-E

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

December 29 30 31
January 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 316

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 01-15-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 17.6

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-254	22,667	1.6
Total:	<u>22,667</u>	<u>1.6</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Seco</u>	<u>TFG-ASW</u>	<u>22,667</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Caraguan Date: 01-31-2008

Self-Monitoring Report
LLNL Solar Treatment Unit 06 (STU06)
AREA TFA-E

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 363

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 02-04-2008
Influent pH: 7.0
Effluent pH: 7.0
Effluent Temperature (°C): 12.4

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-254	36,417	1.7
Total:	<u>36,417</u>	<u>1.7</u>

5. Comments:

6. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Steve Gwaguen Date: 02-29-2008

Self-Monitoring Report
LLNL Solar Treatment Unit 06 (STU06)
AREA TFA-E

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

March 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 471

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 03-05-2008
Influent pH: 7.0
Effluent pH: 7.5
Effluent Temperature (°C): 20.2

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-254	44,967	1.7
Total:	<u>44,967</u>	<u>1.7</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Seco</u>	<u>TFG-ASW</u>	<u>44,967</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 03-31-2008

**Self-Monitoring Report
LLNL LWRP (LWRP)
AREA TFA-W**

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

December	<u>29</u>	<u>30</u>	<u>31</u>																
January	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	05	06	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	15				
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			

Total monthly time facility operated (hours): 333

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>01-14-2008</u>
Influent pH:	<u>6.5</u>
Effluent pH:	<u>7.0</u>
Effluent Temperature (°C):	<u>17.9</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-404	660,685	31.1
Total:	<u>660,685</u>	<u>31.1</u>

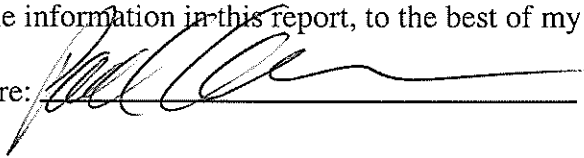
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>LWRP @ 5513Z Charlotte Way</u>	<u>TFA-W-E</u>	<u>660,685</u>

6. Comments:

Operations suspended on 1/14/08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 02-11-2008

**Self-Monitoring Report
LLNL LWRP (LWRP)
AREA TFA-W**

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February 01 02 03 04 05 06 07 08 09 10 11 12 13 **14** 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **02-14-2008**
Influent pH: **7.0**
Effluent pH: **7.0**
Effluent Temperature (°C): **18**

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-404	300	33.0
Total:	<u>300</u>	<u>33.0</u>

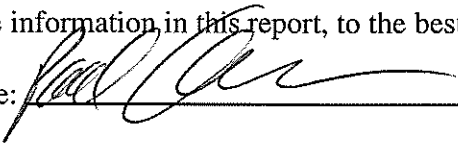
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>LWRP @ 5513Z Charlotte Way</u>	<u>TFA-W-E</u>	<u>300</u>

6. Comments:

Operations were suspended on 1/14/08. The pump in well W-404 is turned on only for very limited durations for routine sampling.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **03-05-2008**

**Self-Monitoring Report
LLNL LWRP (LWRP)
AREA TFA-W**

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

March 01 02 03 04 05 06 07 08 09 10 11 **12** 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **03-12-2008**
Influent pH: **7.5**
Effluent pH: **7.5**
Effluent Temperature (°C): **21**

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-404	398	33.5
Total:	<u>398</u>	<u>33.5</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>LWRP @ 5513Z Charlotte Way</u>	<u>TFA-W-E</u>	<u>398</u>

6. Comments:

Operations were suspended on 1/14/08. The pump in well W-404 is turned on only for very limited durations for routine sampling.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **03-31-2008**

Self-Monitoring Report
LLNL Treatment Facility B (TFB)
AREA TFB

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

December 29 30 31
January 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 410

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 01-09-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 16.5

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-357	139,800	5.7
W-610	112,000	4.8
W-621	164,000	6.7
W-620	88,400	3.4
W-655	169,100	6.4
W-704	143,900	5.8
W-1423	142,100	6.1
Total:	<u>959,300</u>	<u>38.9</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>West Perimeter Drainage Channel</u>	<u>TFB-R002</u>	<u>959,300</u>

6. Comments:

Facility secured on 1-14-08 for operating system upgrades.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Steve Kawaguchi Date: 01-31-2008

Self-Monitoring Report
LLNL Treatment Facility B (TFB)
AREA TFB

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-357	0	0.0
W-610	0	0.0
W-621	0	0.0
W-620	0	0.0
W-655	0	0.0
W-704	0	0.0
W-1423	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>West Perimeter Drainage Channel</u>	<u>TFB-R002</u>	<u>0</u>

6. Comments:

System down entire month for operating system upgrades.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Steve Kawaguchi Date: 02-29-2008

Self-Monitoring Report
LLNL Treatment Facility B (TFB)
AREA TFB

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

March 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 250

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 03-10-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 22.8

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-357	82,800	5.6
W-610	69,100	3.8
W-621	104,900	7.7
W-620	74,900	4.6
W-655	93,500	6.1
W-704	86,100	5.8
W-1423	101,200	4.6
Total:	<u>612,500</u>	<u>38.2</u>

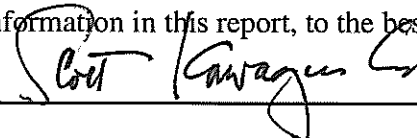
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>West Perimeter Drainage Channel</u>	<u>TFB-R002</u>	<u>612,500</u>

6. Comments:

Control system upgrade completed. Facility restarted on 3-10-08. System operated business hours only from 3-10-08 through 3-14-08. System operated in 24 hour mode from 3-17-08 through 3-21-08. Facility secured from 3-21-08 through 3-26-08 for weekend. Facility restarted on 3-26-08 in 24 hour mode.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 03-31-2008

Land Observation Report date:
TFB-R002 - West Perimeter Drainage Channel

1. Reporting Period: Business Month January Year 2008

2. Date compliance sampling performed 01-09-2008

3. Weather Conditions:

Average air tempertaure (°C):	<u>8.3</u>
6-day total precipitation (in):	<u>2.29</u>
Average wind speed/direction (mph):	<u>6/ S</u>

4. Receiving Data:

<u>Sample</u> <u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>7.5</u>	<u>17.2</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>No</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 01-31-2008

**Land Observation Report date:
TFB-R002 - West Perimeter Drainage Channel**

1. Reporting Period: Business Month February Year 2008

2. Date compliance sampling performed 02-04-2008

3. Weather Conditions:

Average air tempertaure (°C):	<u>7.3</u>
6-day total precipitation (in):	<u>.57</u>
Average wind speed/direction (mph):	<u>6/ SSW</u>

4. Receiving Data:

Sample		
<u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>No</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Steve Kawaguchi Date: 02-29-2008

Land Observation Report date:
TFB-R002 - West Perimeter Drainage Channel

1. Reporting Period: Business Month March Year 2008

2. Date compliance sampling performed 03-10-2008

3. Weather Conditions:

Average air tempertaure (°C):	<u>12.1</u>
6-day total precipitation (in):	<u>0</u>
Average wind speed/direction (mph):	<u>3/ SE</u>

4. Receiving Data:

Sample		
<u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>No</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 03-31-2008

Self-Monitoring Report

LLNL Treatment Facility C (TFC)

AREA TFC

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

December	29	30	31														
January	01	02	03	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	11	12	13	14	15		
	16	17	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>31</u>	

Total monthly time facility operated (hours): 485

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>01-07-2008</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>17.9</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-701	375,731	12.5
W-1015	207,916	7.0
W-1116	58,244	2.0
W-1103	56,556	1.7
W-1102	94,185	3.2
W-1104	788,047	27.0
 Total:	<u>1,580,679</u>	<u>53.4</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>1,580,679</u>

6. Comments:

Facility was down for repairs to discharge pump.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 01-31-2008

Self-Monitoring Report
LLNL Treatment Facility C (TFC)
AREA TFC

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
 16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): **694**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **02-04-2008**

Influent pH: **7.0**

Effluent pH: **7.5**

Effluent Temperature (°C): **18**

4. Wellfield Data:

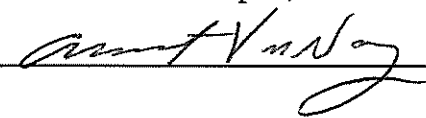
<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-701	509,671	13.4
W-1015	293,507	7.1
W-1116	82,872	1.9
W-1103	77,828	1.7
W-1102	141,928	3.4
W-1104	1,125,133	27.8
Total:	<u>2,230,939</u>	<u>55.3</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>2,230,939</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **02-29-2008**

Self-Monitoring Report
LLNL Treatment Facility C (TFC)
AREA TFC

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

March 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 704

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 03-05-2008
Influent pH: 7.0
Effluent pH: 7.5
Effluent Temperature (°C): 18.5

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-701	540,042	13.2
W-1015	301,359	7.5
W-1116	81,784	2.0
W-1103	79,670	2.0
W-1102	141,518	3.2
W-1104	1,150,591	27.3
Total:	<u>2,294,964</u>	<u>55.2</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>2,294,964</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 03-31-2008

**Land Observation Report date:
TFC-R003 - Arroyo Las Positas**

1. Reporting Period: Business Month January Year 2008

2. Date compliance sampling performed 01-07-2008

3. Weather Conditions:

Average air tempertaure (°C):	<u>8.6</u>
6-day total precipitation (in):	<u>2.48</u>
Average wind speed/direction (mph):	<u>5/ S</u>

4. Receiving Data:

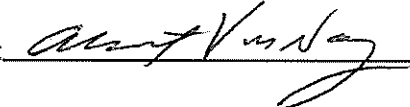
Sample		
<u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>7</u>	<u>17.3</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>No</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 02-01-2008

**Land Observation Report date:
TFC-R003 - Arroyo Las Positas**

1. Reporting Period: Business Month February Year 2008

2. Date compliance sampling performed 02-04-2008

3. Weather Conditions:

Average air tempertaure (°C):	<u>7.3</u>
6-day total precipitation (in):	<u>.57</u>
Average wind speed/direction (mph):	<u>6/ SSW</u>

4. Receiving Data:

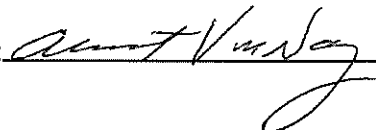
Sample Location	pH	Temperature (C)
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>No</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 02-29-2008

**Land Observation Report date:
TFC-R003 - Arroyo Las Positas**

1. Reporting Period: Business Month March Year 2008

2. Date compliance sampling performed 03-05-2008

3. Weather Conditions:

Average air tempertaure (°C):	<u>12</u>
6-day total precipitation (in):	<u>0</u>
Average wind speed/direction (mph):	<u>5/ SE</u>

4. Receiving Data:

Sample		
<u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>No</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaga Co. Date: 04-02-2008

Self-Monitoring Report
LLNL Mini Treatment Unit 1 (MTU1)
AREA TFC-E

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

December	<u>29</u>	<u>30</u>	<u>31</u>																
January	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>				
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>31</u>			

Total monthly time facility operated (hours): 814

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>01-08-2008</u>
Influent pH:	<u>6.5</u>
Effluent pH:	<u>7.0</u>
Effluent Temperature (°C):	<u>16.3</u>

4. Wellfield Data:

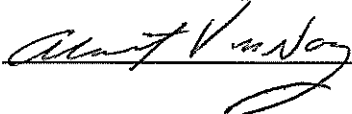
<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-368	218,986	4.5
W-413	763,496	15.5
Total:	<u>982,482</u>	<u>20.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>982,482</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 01-31-2008

Self-Monitoring Report
LLNL Mini Treatment Unit 1 (MTU1)
AREA TFC-E

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February 01 02 03 04 **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
 16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** 28 29

Total monthly time facility operated (hours): 525

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 02-11-2008
Influent pH: 7.0
Effluent pH: 7.5
Effluent Temperature (°C): 19.6

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-368	139,270	4.4
W-413	495,894	15.7
Total:	<u>635,164</u>	<u>20.1</u>

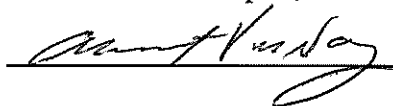
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>635,164</u>

6. Comments:

Facility was down first four days of the month waiting for new resin columns.
Facility was secured on 2-27-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 02-29-2008

Self-Monitoring Report

LLNL Mini Treatment Unit 1 (MTU1)

AREA TFC-E

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

March	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-368	0	0.0
W-413	0	0.0
<hr/>		
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **04-01-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 1 (PTU1)
AREA TFC-SE

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

December 29 30 31
January 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 829

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 01-08-2008
Influent pH: 6.5
Effluent pH: 7.0
Effluent Temperature (°C): 15.9

4. Wellfield Data:

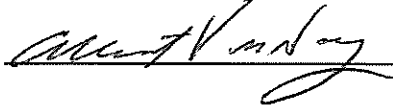
<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1213	328,334	6.7
W-2201	433,188	8.9
Total:	<u>761,522</u>	<u>15.6</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>761,522</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 01-31-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 1 (PTU1)
AREA TFC-SE

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 704

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 02-04-2008
Influent pH: 7.0
Effluent pH: 7.5
Effluent Temperature (°C): 17.2

4. Wellfield Data:

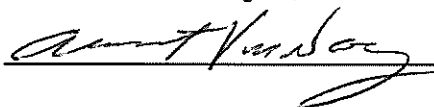
<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1213	277,352	6.5
W-2201	364,920	8.7
Total:	<u>642,272</u>	<u>15.2</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>642,272</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 02-29-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 1 (PTU1)
AREA TFC-SE

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

March 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 753

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 03-05-2008
Influent pH: 7.0
Effluent pH: 7.5
Effluent Temperature (°C): 19.1

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1213	296,066	6.5
W-2201	390,063	8.6
Total:	<u>686,129</u>	<u>15.1</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>686,129</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: 03-31-2008

Self-Monitoring Report
LLNL Treatment Facility D (TFD)
AREA TFD

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

December 29 30 31
January 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 825

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 01-16-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 18.2

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-653	0	0.0
W-351	11,200	0.2
W-907-2	521,900	10.7
W-906	342,800	7.0
W-1206	580,800	11.7
W-1208	1,109,400	22.7
W-2102	0	0.0
W-2011	0	0.0
W-2101	0	0.0
Total:	<u>2,566,100</u>	<u>52.3</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>2,566,100</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: 01-31-2008

Self-Monitoring Report
LLNL Treatment Facility D (TFD)
AREA TFD

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 660

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 02-05-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 17.9

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-653	0	0.0
W-351	9,500	0.2
W-907-2	419,600	10.8
W-906	216,000	7.0
W-1206	458,500	11.5
W-1208	890,500	22.7
W-2102	0	0.0
W-2011	0	0.0
W-2101	0	0.0
Total:	<u>1,994,100</u>	<u>52.2</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>1,994,100</u>

6. Comments:

Facility shut down on 2-24-08 due to low water alarm in extraction well. Facility restarted on 2-26-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Steve Kawaguchi Date: 02-29-2008

Self-Monitoring Report LLNL Treatment Facility D (TFD) AREA TFD

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

March 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 584

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 03-05-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 18.8

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-653	1,300	0.0
W-351	11,900	0.4
W-907-2	370,200	10.8
W-906	131,300	7.7
W-1206	317,500	12.2
W-1208	779,700	22.7
W-2102	0	0.0
W-2011	0	0.0
W-2101	0	0.0
Total:	<u>1,611,900</u>	<u>53.8</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>1,611,900</u>

6. Comments:

System down intermittently from 3-13-08 through 3-17-08 due to low flow fault.
Facility down on 3-21-08 due to low flow fault. Restarted on 3-25-08. W-1206
went down on 3-21-08 due to transducer failure. W-906 operated intermittently
due to flow meter issue.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Treatment Facility D (TFD)
AREA TFD

Operator Signature: Scott Keweenaw Gi Date: 04-02-2008

Self-Monitoring Report

LLNL Portable Treatment Unit 8 (PTU8)

AREA TFD-E

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

December	<u>29</u>	<u>30</u>	<u>31</u>															
January	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	05	06	07	08	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>			
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>31</u>		

Total monthly time facility operated (hours): 675

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>01-16-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>17.2</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1255	0	0.0
W-1253	0	0.0
W-1307	242,000	6.0
W-1303	44,700	1.1
W-1306	14,700	0.4
W-1404	0	0.0
W-1550	103,500	2.6
W-1301	41,000	1.2
W-2006	800	0.0
W-2203	28,800	0.8
Total:	<u>475,500</u>	<u>12.1</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>475,500</u>

6. Comments:

Facility went down on 1-4-08 due to computer touch screen failure. Touch screen replaced and facility restarted on 1-9-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Portable Treatment Unit 8 (PTU8)
AREA TFD-E

Operator Signature: Steve Kuvagnir Date: 01-31-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 8 (PTU8)
AREA TFD-E

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 665

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 02-05-2008

Influent pH: 7.5

Effluent pH: 7.5

Effluent Temperature (°C): 16.3

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1253	0	0.0
W-1255	0	0.0
W-1307	240,200	6.1
W-1303	40,100	1.0
W-1306	9,700	0.3
W-1404	100	0.0
W-1550	101,500	2.6
W-1301	51,100	1.2
W-2006	1,000	0.0
W-2203	31,400	0.7
Total:	<u>475,100</u>	<u>11.9</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>475,100</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Caragea Date: 02-29-2008

Self-Monitoring Report

LLNL Portable Treatment Unit 8 (PTU8)

AREA TFD-E

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

March 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 705

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 03-05-2008
 Influent pH: 7.0
 Effluent pH: 7.5
 Effluent Temperature (°C): 18.1

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1255	0	0.0
W-1253	0	0.0
W-1307	257,600	6.2
W-1303	40,300	1.0
W-1306	13,700	0.3
W-1404	11,200	0.2
W-1550	107,800	2.6
W-1301	57,100	1.3
W-2006	1,300	0.0
W-2203	29,600	0.8
Total:	<u>518,600</u>	<u>12.4</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>518,600</u>

6. Comments:

Facility down from 3-15-08 through 3-17-08 due to low flow alarm. Facility restarted on 3-17-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Portable Treatment Unit 8 (PTU8)
AREA TFD-E

Operator Signature: Scott Kowagun G. Date: 03-31-2008

Self-Monitoring Report

LLNL Portable Treatment Unit 10 (PTU10)

AREA TFD-HPD

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

December	29	30	31															
January	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15			
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1254	0	0.0
W-1653	0	0.0
W-1657	0	0.0
W-1551	0	0.0
W-1654	0	0.0
W-1552	0	0.0
W-1656	0	0.0
W-1650	0	0.0
W-1652	0	0.0
W-1651	0	0.0
W-1655	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

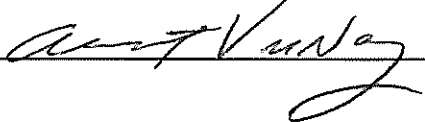
<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

Facility secured for the insitu bioremediation treatability test and will remain off for the remainder of FY08.

Self-Monitoring Report (cont'd)
LLNL Portable Treatment Unit 10 (PTU10)
AREA TFD-HPD

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 01-31-2008

Self-Monitoring Report

LLNL Portable Treatment Unit 10 (PTU10)

AREA TFD-HPD

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1254	0	0.0
W-1653	0	0.0
W-1657	0	0.0
W-1551	0	0.0
W-1654	0	0.0
W-1552	0	0.0
W-1656	0	0.0
W-1650	0	0.0
W-1652	0	0.0
W-1651	0	0.0
W-1655	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:


<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

Facility was secured on 10-11-07 for the insitu bioremediation treatability test and will remain off for the remainder of FY08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Portable Treatment Unit 10 (PTU10)
AREA TFD-HPD

Operator Signature:  Date: 02-29-2008

Self-Monitoring Report

LLNL Portable Treatment Unit 10 (PTU10)

AREA TFD-HPD

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

March	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1254	0	0.0
W-1653	0	0.0
W-1657	0	0.0
W-1551	0	0.0
W-1654	0	0.0
W-1552	0	0.0
W-1656	0	0.0
W-1650	0	0.0
W-1652	0	0.0
W-1651	0	0.0
W-1655	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:


<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Portable Treatment Unit 10 (PTU10)
AREA TFD-HPD

Operator Signature:  Date: 04-01-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 2 (PTU2)
AREA TFD-S

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

December 29 30 31
January 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 828

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 01-15-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 18

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1504	114,467	2.3
W-1510	120,742	2.8
W-1503	846,312	17.2
Total:	<u>1,081,521</u>	<u>22.3</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>1,081,521</u>

6. Comments:

W-1510 was down for two days(1/5,1/6)due to low flow.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kishel Date: 03-04-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 2 (PTU2)
AREA TFD-S

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 699

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 02-14-2008

Influent pH: 7.5

Effluent pH: 7.5

Effluent Temperature (°C): 17.5

4. Wellfield Data:

<u>Source</u>	<u>Monthly</u> <u>Volume(gal)</u>	<u>Instantaneous</u> <u>Flow Rate(gpm)</u>
W-1503	710,104	17.1
W-1510	114,881	2.7
W-1504	97,679	2.4
Total:	<u>922,664</u>	<u>22.2</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving</u> <u>Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>922,664</u>

6. Comments:

NA

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kuhl Date: 03-04-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 2 (PTU2)
AREA TFD-S

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

March 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 740

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 03-13-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 17.8

4. Wellfield Data:

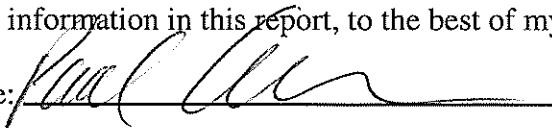
<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1503	751,800	16.9
W-1510	75,006	2.7
W-1504	103,419	2.3
Total:	<u>930,225</u>	<u>21.9</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>930,225</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 03-31-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 11 (PTU11)
AREA TFD-SE

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

December 29 30 31
January 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 827

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 01-07-2008
Influent pH: 7.0
Effluent pH: 7.0
Effluent Temperature (°C): 20.1

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-314	815,238	16.7
W-1403	215,422	4.5
W-1308	149,235	3.1
W-1904	3	0.0
W-2005	29,461	0.3
SIP-ETC-201	0	0.0
Total:	<u>1,209,359</u>	<u>24.7</u>

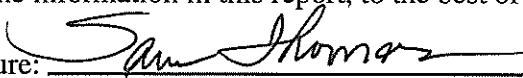
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>1,209,359</u>

6. Comments:

Shutdown facility 1/28/08 to replace Cuno Filters and inspect stripper trays.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 01-31-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 11 (PTU11)
AREA TFD-SE

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 385

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 02-01-2008
Influent pH: 7.0
Effluent pH: 7.0
Effluent Temperature (°C): 20

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-314	358,790	16.8
W-1403	89,590	4.6
W-1308	70,492	3.1
W-1904	3	0.0
W-2005	6,492	0.3
SIP-ETC-201	0	0.0
Total:	<u>525,367</u>	<u>24.8</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>525,367</u>

6. Comments:

Facility shutdown 2/16/07 due to loss of power at facility control system/data acquisition panel. System awaiting evaluation by Electrical personnel to determine cause of failure. Monthly BAAQMD compliance readings were not taken for reporting month.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: 03-03-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 11 (PTU11)
AREA TFD-SE

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

March 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29** **30** **31**

Total monthly time facility operated (hours): 290

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 03-19-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 20.3

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-314	0	0.0
W-1403	87,879	6.3
W-1308	53,499	3.1
W-1904	0	0.0
W-2005	18,099	2.6
SIP-ETC-201	0	0.0
Total:	<u>159,477</u>	<u>12.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>159,477</u>

6. Comments:

Facility down from 2-16-08 through 3-18-08 due to control system issue. Facility restarted on 3-19-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Carayon Date: 03-31-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 12 (PTU12)
AREA TFD-SS

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

December	<u>29</u>	<u>30</u>	<u>31</u>																
January	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>				
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>31</u>			

Total monthly time facility operated (hours): 828

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>01-16-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>16.3</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1523	416,222	8.6
W-1603	583,862	11.9
W-1602	226,502	4.6
W-1601	50,311	1.0
Total:	<u>1,276,897</u>	<u>26.1</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>1,276,897</u>

6. Comments:

NA

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy V. Kimmel Jr. Date: 02-25-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 12 (PTU12)
AREA TFD-SS

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 623

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 02-14-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 19

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1523	314,662	8.4
W-1603	433,859	11.6
W-1602	153,676	4.5
W-1601	37,058	1.0
Total:	<u>939,255</u>	<u>25.5</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>939,255</u>

6. Comments:

The facility was shutdown from 1533(2/16/08) until 1112 (2/19/08) due to a high H2O level in the sump.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kuhl Date: 03-05-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 12 (PTU12)
AREA TFD-SS

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

March 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 750

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 03-18-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 19.1

4. Wellfield Data:

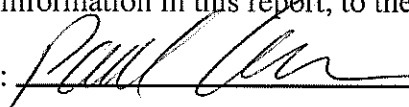
<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1523	384,191	8.6
W-1603	536,545	11.9
W-1602	191,091	4.1
W-1601	44,680	1.0
Total:	<u>1,156,507</u>	<u>25.6</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>1,156,507</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-01-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 6 (PTU6)
AREA TFD-W

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

December 29 30 31
January 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 687

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 01-29-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 20.9

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1216	314,016	8.3
W-1215	301,832	7.9
W-1902	261,391	6.4
Total:	<u>877,239</u>	<u>22.6</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>877,239</u>

6. Comments:

System secure from 1/18/08 to 1/24/08 for carbon change.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 02-06-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 6 (PTU6)
AREA TFD-W

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 694

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 02-20-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 20.7

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1216	379,430	9.1
W-1215	329,853	8.0
W-1902	59,908	0.0
Total:	<u>769,191</u>	<u>17.1</u>

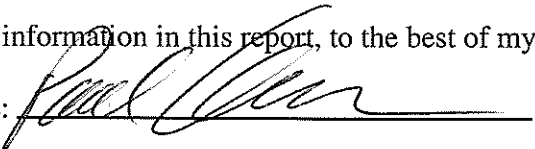
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>769,191</u>

6. Comments:

Secured W-1902 on 2/7/08 for repairs to influent manifold.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 03-21-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 6 (PTU6)
AREA TFD-W

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

March 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 753

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 03-06-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 20.6

4. Wellfield Data:


<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1216	404,611	9.0
W-1215	355,951	7.9
W-1902	0	0.0
Total:	<u>760,562</u>	<u>16.9</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>760,562</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 04-01-2008

Self-Monitoring Report

LLNL Vapor Extraction System 11 (VES11)

AREA VTFD-ETCS

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treatment facility operated

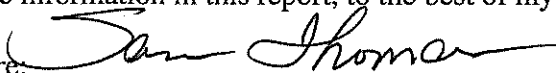
December	29	30	31														
January	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15		
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1904	0	0.0	0	0	0
W-ETC-2004B	0	0.0	0	0	0
W-ETC-2004A	0	0.0	0	0	0
W-ETC-2003	0	0.0	0	0	0
SIP-ETC-201	0	0.0	0	0	0
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 01-31-2008

Self-Monitoring Report

LLNL Vapor Extraction System 11 (VES11)

AREA VTFD-ETCS

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treatment facility operated

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

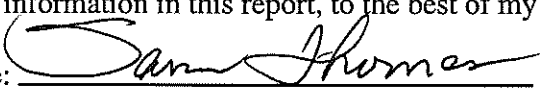
3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1904	0	0.0	0	0	0
W-ETC-2004B	0	0.0	0	0	0
W-ETC-2004A	0	0.0	0	0	0
W-ETC-2003	0	0.0	0	0	0
SIP-ETC-201	0	0.0	0	0	0
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

Facility did not operate during reporting month and has not operated since 8/11/07 due to blower motor failure.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 03-03-2008

Self-Monitoring Report

LLNL Vapor Extraction System 11 (VES11)

AREA VTFD-ETCS

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treatment facility operated

March	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

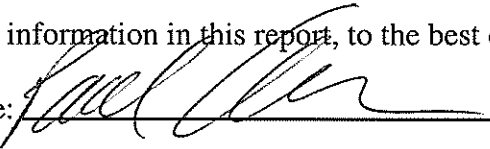
3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1904	0	0.0	0	0	0
W-ETC-2004B	0	0.0	0	0	0
W-ETC-2004A	0	0.0	0	0	0
W-ETC-2003	0	0.0	0	0	0
SIP-ETC-201	0	0.0	0	0	0
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **04-01-2008**

Self-Monitoring Report

LLNL Vapor Extraction System 07 (VES07)

AREA VTFD-HPD

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treatment facility operated

December	29	30	31																													
January	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15																	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31																

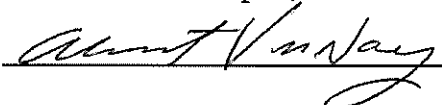
3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1651	0	0.0	0	0	0
W-1653	0	0.0	0	0	0
W-1657	0	0.0	0	0	0
W-1654	0	0.0	0	0	0
W-1652	0	0.0	0	0	0
W-1552	0	0.0	0	0	0
W-1655	0	0.0	0	0	0
W-1656	0	0.0	0	0	0
W-1650	0	0.0	0	0	0
W-HPA-002A	0	0.0	0	0	0
W-HPA-002B	0	0.0	0	0	0
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

Facility secured for the insitu bioremediation treatability test and will remain off for the remainder of FY08.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 02-01-2008

Self-Monitoring Report

LLNL Vapor Extraction System 07 (VES07)

AREA VTFD-HPD

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treatment facility operated

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

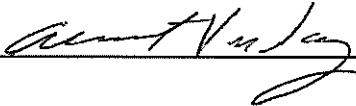
3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1651	0	0.0	0	0	0
W-1653	0	0.0	0	0	0
W-1657	0	0.0	0	0	0
W-1654	0	0.0	0	0	0
W-1652	0	0.0	0	0	0
W-1552	0	0.0	0	0	0
W-1655	0	0.0	0	0	0
W-1656	0	0.0	0	0	0
W-1650	0	0.0	0	0	0
W-HPA-002A	0	0.0	0	0	0
W-HPA-002B	0	0.0	0	0	0
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

Facility was secured on 10-11-07 for the insitu bioremediation treatability test and will remain off for the remainder of FY08.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 02-29-2008

Self-Monitoring Report

LLNL Vapor Extraction System 07 (VES07)

AREA VTFD-HPD

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treatment facility operated

March 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1651	0	0.0	0	0	0
W-1653	0	0.0	0	0	0
W-1657	0	0.0	0	0	0
W-1654	0	0.0	0	0	0
W-1652	0	0.0	0	0	0
W-1552	0	0.0	0	0	0
W-1655	0	0.0	0	0	0
W-1656	0	0.0	0	0	0
W-1650	0	0.0	0	0	0
W-HPA-002A	0	0.0	0	0	0
W-HPA-002B	0	0.0	0	0	0
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 04-01-2008

Self-Monitoring Report

LLNL Vapor Extraction System 13 (VES13)

AREA VTFD-HS

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treatment facility operated

December	29	30	31																													
January	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15																	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31																

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-653	0	0.0	0	0	0
W-2102	0	0.0	0	0	0
W-2011	0	0.0	0	0	0
W-2101	0	0.0	0	0	0
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

Facility did not operate during this period.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kuraguchi Date: 01-31-2008

Self-Monitoring Report

LLNL Vapor Extraction System 13 (VES13)

AREA VTFD-HS

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treatment facility operated

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-653	0	0.0	0	0	0
W-2102	0	0.0	0	0	0
W-2011	0	0.0	0	0	0
W-2101	0	0.0	0	0	0
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

Facility did not operate during this month.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 02-29-2008

Self-Monitoring Report

LLNL Vapor Extraction System 13 (VES13)

AREA VTFD-HS

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treatment facility operated

March	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30 31

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-653	0	0.0	0	0	0
W-2102	0	0.0	0	0	0
W-2011	0	0.0	0	0	0
W-2101	0	0.0	0	0	0
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

Awaiting installation of vacuum extraction unit.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **03-31-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 3 (PTU3)
AREA TFE-E

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

December 29 30 31
January 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 604

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 01-28-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 20.8

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-566	220,501	6.2
W-1109	58,950	1.6
W-1903	0	0.0
W-1909	0	0.0
W-2305	0	0.0
Total:	<u>279,451</u>	<u>7.8</u>

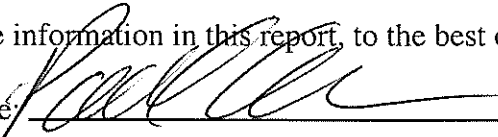
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>279,451</u>

6. Comments:

System down 2/10/08 to 2/17/08 due to electronic modifications to W-1903.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature  Date: 02-06-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 3 (PTU3)
AREA TFE-E

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): 241

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 02-19-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 20.8

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-566	88,208	6.2
W-1109	21,212	1.4
W-1903	0	0.0
W-1909	0	0.0
W-2305	0	0.0
Total:	<u>109,420</u>	<u>7.6</u>

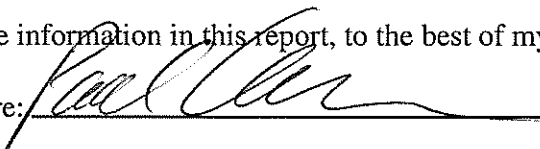
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>109,420</u>

6. Comments:

System secure from 1/31/08 to 2/19/08 for electronic modifications.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 03-04-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 3 (PTU3)
AREA TFE-E

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

March 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 601

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 03-11-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 20.9

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-566	218,445	6.1
W-1109	55,427	1.5
W-1903	5	0.0
W-1909	0	0.0
W-2305	13	0.0
Total:	<u>273,890</u>	<u>7.6</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>273,890</u>

6. Comments:

System secure from 3/21/08 to 3/25/08 and 3/28/08 to 3/31/08 for electronic upgrades to wells: W-1903 and W-2305. Wells: W-1903 and W-2305 were run briefly on 3/10/08 to test new well pumps.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 04-01-2008

Operator Signature: [Signature] Date: 02-06-2008

Self-Monitoring Report
LLNL GAC Treatment Unit 07 (GTU07)
AREA TFE-HS

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 652

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 02-19-2008
Influent pH: 7.0
Effluent pH: 7.0
Effluent Temperature (°C): 19.4

4. Wellfield Data:

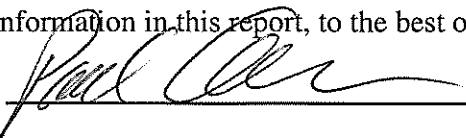
<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-2105	3,752	0.0
W-2012	166,968	3.6
Total:	<u>170,720</u>	<u>3.6</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>170,720</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 03-04-2008

Self-Monitoring Report
LLNL GAC Treatment Unit 07 (GTU07)
AREA TFE-HS

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

March 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 557

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 03-11-2008
Influent pH: 7.0
Effluent pH: 7.0
Effluent Temperature (°C): 19.7

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-2105	3,193	0.0
W-2012	114,183	3.4
Total:	<u>117,376</u>	<u>3.4</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>117,376</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **04-01-2008**

Self-Monitoring Report
LLNL Portable Treatment Unit 9 (PTU9)
AREA TFE-NW

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

December	<u>29</u>	<u>30</u>	<u>31</u>																
January	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>				
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>31</u>			

Total monthly time facility operated (hours): 834

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>01-29-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>22.1</u>

4. Wellfield Data:

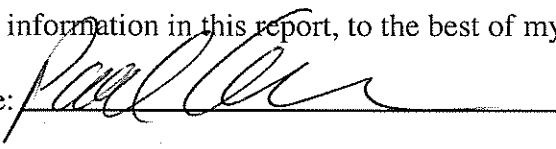
<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1211	965,410	19.4
W-1409	90,037	1.8
Total:	<u>1,055,447</u>	<u>21.2</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>1,055,447</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 02-06-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 9 (PTU9)
AREA TFE-NW

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 696

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 02-20-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 21.3

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1211	801,455	19.4
W-1409	77,985	1.8
Total:	<u>879,440</u>	<u>21.2</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>879,440</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 03-04-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 9 (PTU9)
AREA TFE-NW

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

March 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 755

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 03-11-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 21.4

4. Wellfield Data:

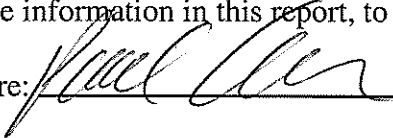
<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1211	868,596	19.3
W-1409	82,046	1.8
Total:	<u>950,642</u>	<u>21.1</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>950,642</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **04-01-2008**

Operator Signature: Brian Mitchell Date: 01-31-2008

Self-Monitoring Report
LLNL Mini Treatment Unit 04 (MTU04)
AREA TFE-SE

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 596

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 02-01-2008
Influent pH: 7.0
Effluent pH: 7.0
Effluent Temperature (°C): 20.3

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-359	235,028	6.4
Total:	<u>235,028</u>	<u>6.4</u>

5. Comments:

Facility was down on 2-2 to 2-4, due to cracked pipe. Pipe was fixed on 2-4.
Restart facility on 2-5.

6. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Brian Mitchell Date: 03-03-2008

Self-Monitoring Report
LLNL Mini Treatment Unit 04 (MTU04)
AREA TFE-SE

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

March 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 740

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 03-06-2008
Influent pH: 7.0
Effluent pH: 7.0
Effluent Temperature (°C): 21

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-359	274,665	6.5
Total:	<u>274,665</u>	<u>6.5</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>274,665</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 04-01-2008

Self-Monitoring Report
LLNL Mini Treatment Unit 03 (MTU03)
AREA TFE-SW

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

December	29	30	31																	
January	01	02	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>					
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>31</u>				

Total monthly time facility operated (hours): 668

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>01-09-2008</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.0</u>
Effluent Temperature (°C):	<u>21.8</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1520	381	0.0
W-1518	71,466	1.7
W-1522	58,911	1.4
Total:	<u>130,758</u>	<u>3.1</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>130,758</u>

6. Comments:

Facility down from 12/29 to 1/2 due to discharge pump failure. W-1520 is shut down per Ed Folsom due to high Tritium levels. Run only to collect sample.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Brian Mitchell Date: 01-31-2008

Self-Monitoring Report
LLNL Mini Treatment Unit 03 (MTU03)
AREA TFE-SW

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): 599

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 02-05-2008
Influent pH: 7.0
Effluent pH: 7.5
Effluent Temperature (°C): 20.9

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1520	0	0.0
W-1518	63,754	1.8
W-1522	49,933	1.4
Total:	<u>113,687</u>	<u>3.2</u>

5. Comments:

Facility down 2-16 to 2-18, for high sump level over weekend. W-1520 is down till further notice, due to high Tritium levels.

6. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Brian Mitchell Date: 03-03-2008

Self-Monitoring Report
LLNL Mini Treatment Unit 03 (MTU03)
AREA TFE-SW

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

March 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 740

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 03-06-2008
Influent pH: 7.0
Effluent pH: 7.0
Effluent Temperature (°C): 20.2

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1520	23	2.0
W-1518	79,826	1.8
W-1522	60,717	4.2
Total:	<u>140,566</u>	<u>8.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>140,566</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 04-01-2008

Self-Monitoring Report
LLNL Mini Treatment Unit 05 (MTU05)
AREA TFE-W

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

December	<u>29</u>	<u>30</u>	<u>31</u>																
January	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>				
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>31</u>			

Total monthly time facility operated (hours): 783

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>01-09-2008</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>20.3</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-305	423,936	9.0
W-292	294,175	6.2
Total:	<u>718,111</u>	<u>15.2</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>718,111</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Brian Mitchell Date: 02-01-2008

Self-Monitoring Report
LLNL Mini Treatment Unit 05 (MTU05)
AREA TFE-W

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): 609

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 02-07-2008
Influent pH: 7.0
Effluent pH: 7.0
Effluent Temperature (°C): 20.1

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-305	328,909	9.0
W-292	227,554	6.2
Total:	<u>556,463</u>	<u>15.2</u>

5. Comments:

Facility was down on 2-16 to 2-18 for maintenance.

6. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Brian Mitchell Date: 03-03-2008

Self-Monitoring Report
LLNL Mini Treatment Unit 05 (MTU05)
AREA TFE-W

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

March 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 700

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 03-06-2008
Influent pH: 7.0
Effluent pH: 7.0
Effluent Temperature (°C): 20.8

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-305	379,548	9.0
W-292	258,808	6.4
Total:	<u>638,356</u>	<u>15.4</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>638,356</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 04-01-2008

Self-Monitoring Report

LLNL Vapor Extraction System 16 (VES16)

AREA VTFE-ELM

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treatment facility operated

December	<u>29</u>	<u>30</u>	<u>31</u>																
January	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>				
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>31</u>			

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1909	0	0.0	0	0	0
W-1903	0	0.0	0	0	0
W-2305	0	0.0	0	0	0
W-543-003	1,031,399	19.2	-2.2	47	816
W-543-001	389,579	7.5	-3.5	47	816
W-543-1908	660,570	12.4	-3.5	47	816
Total:	<u>2,081,548</u>	<u>39.1</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 02-12-2008

Self-Monitoring Report

LLNL Vapor Extraction System 16 (VES16)

AREA VTFE-ELM

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treatment facility operated

February **01** **02** **03** **04** **05** 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-543-1908	106,991	0.0	0	0	130
W-1903	0	0.0	0	0	0
W-2305	0	0.0	0	0	0
W-543-003	150,077	0.0	0	0	130
W-543-001	56,760	0.0	0	0	130
W-1909	0	0.0	0	0	0
Total:	<u>313,828</u>	<u>0.0</u>			

4. Comments:

Facility shutdown 2/5/08 due to blower motor failure. Monthly BAAQMD compliance readings were not taken for reporting month.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: 03-03-2008

Self-Monitoring Report

LLNL Vapor Extraction System 16 (VES16)

AREA VTFE-ELM

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treatment facility operated

March	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1909	0	0.0	0	0	0
W-1903	0	0.0	0	0	0
W-2305	0	0.0	0	0	0
W-543-003	0	0.0	0	0	0
W-543-001	0	0.0	0	0	0
W-543-1908	0	0.0	0	0	0
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 04-01-2008

Self-Monitoring Report

LLNL Vapor Extraction System 12 (VES12)

AREA VTFE-HS

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treatment facility operated

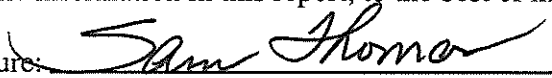
December	<u>29</u>	<u>30</u>	<u>31</u>																				
January	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>								
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>31</u>							

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-ETS-2010B	313,782	5.9	-.95	46	821
W-ETS-2010A	226,538	4.4	-.18	46	821
W-ETS-2009	244,291	5.1	-.18	46	821
W-ETS-2008A	251,359	5.1	-.63	46	821
W-ETS-2008B	224,610	4.5	-4.46	46	821
W-2105	157,101	3.2	-1.84	46	821
Total:					
	<u>1,417,681</u>	<u>28.2</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 02-06-2008

Self-Monitoring Report

LLNL Vapor Extraction System 12 (VES12)

AREA VTFE-HS

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treatment facility operated

February **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
 16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-ETS-2010B	262,358	5.7	-.5	48	702
W-ETS-2010A	188,004	4.5	-.18	48	702
W-ETS-2009	201,708	4.9	-.11	48	702
W-ETS-2008A	194,173	4.3	-.62	48	702
W-ETS-2008B	100,893	5.0	-4.45	48	702
W-2105	135,642	3.2	-1.88	48	702
Total:	<u>1,082,778</u>	<u>27.7</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 03-03-2008

Self-Monitoring Report

LLNL Vapor Extraction System 12 (VES12)

AREA VTFE-HS

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treatment facility operated

March **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

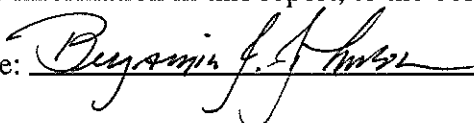
3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-ETS-2010B	98,845	0.0	0	0	275
W-ETS-2010A	62,888	0.0	0	0	275
W-ETS-2009	70,462	0.0	0	0	275
W-ETS-2008A	62,052	0.0	0	0	275
W-ETS-2008B	154,456	0.0	0	0	275
W-2105	47,684	0.0	0	0	275
Total:	<u>496,387</u>	<u>0.0</u>			

4. Comments:

Facility failed on 3/10/08 due to a catastrophic motor failure in the liquid ring vacuum pump. Facility will not be restarted due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **04-03-2008**

Operator Signature: [Signature] Date: 02-06-2008

Self-Monitoring Report
LLNL GAC Treatment Unit 01 (GTU01)
AREA TFG-1

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 666

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 02-19-2008
Influent pH: 7.0
Effluent pH: 7.0
Effluent Temperature (°C): 19.1

4. Wellfield Data:

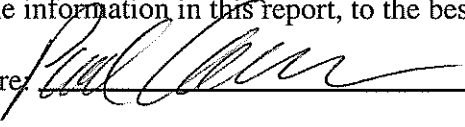
<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1111	362,337	8.8
Total:	<u>362,337</u>	<u>8.8</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Seco</u>	<u>TFG-ASW</u>	<u>362,337</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 03-04-2008

Self-Monitoring Report
LLNL GAC Treatment Unit 01 (GTU01)
AREA TFG-1

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

March 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 718

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 03-06-2008
Influent pH: 7.0
Effluent pH: 7.0
Effluent Temperature (°C): 19.2

4. Wellfield Data:

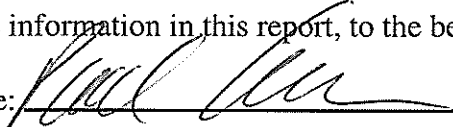
<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1111	393,155	8.8
Total:	<u>393,155</u>	<u>8.8</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Seco</u>	<u>TFG-ASW</u>	<u>393,155</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 04-01-2008

Land Observation Report date:
TFG-ASW - Arroyo Seco

1. Reporting Period: Business Month January Year 2008

2. Date compliance sampling performed 01-29-2008

3. Weather Conditions:

Average air tempertaure (°C):	<u>8.7</u>
6-day total precipitation (in):	<u>.51</u>
Average wind speed/direction (mph):	<u>6/ SSE</u>

4. Receiving Data:

Sample <u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>7.0</u>	<u>17.5</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>N/A</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 02-06-2008

**Land Observation Report date:
TFG-ASW - Arroyo Seco**

1. Reporting Period: Business Month February Year 2008

2. Date compliance sampling performed 02-19-2008

3. Weather Conditions:

Average air tempertaure (°C):	<u>9.5</u>
6-day total precipitation (in):	<u>.48</u>
Average wind speed/direction (mph):	<u>4/ SSE</u>

4. Receiving Data:

Sample		
<u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>N/A</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 03-04-2008

Land Observation Report date:
TFG-ASW - Arroyo Seco

1. Reporting Period: Business Month March Year 2008

2. Date compliance sampling performed 03-06-2008

3. Weather Conditions:

Average air tempertaure (°C):	<u>11.5</u>
6-day total precipitation (in):	<u>0</u>
Average wind speed/direction (mph):	<u>5/ SE</u>

4. Receiving Data:

<u>Sample</u> <u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>N/A</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 04-01-2008

Operator Signature: [Signature] Date: 02-06-2008

Self-Monitoring Report
LLNL Mini Treatment Unit 02 (MTU02)
AREA TFG-N

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 696

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 02-20-2008
Influent pH: 7.0
Effluent pH: 7.0
Effluent Temperature (°C): 19.6

4. Wellfield Data:

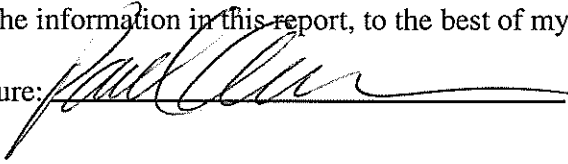
<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1807	154,574	3.6
W-1806	52,051	1.2
Total:	<u>206,625</u>	<u>4.8</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>206,625</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 03-04-2008

Self-Monitoring Report
LLNL Mini Treatment Unit 02 (MTU02)
AREA TFG-N

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

March 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 714

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 03-06-2008
Influent pH: 7.0
Effluent pH: 7.0
Effluent Temperature (°C): 19.7

4. Wellfield Data:


<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1807	158,269	4.1
W-1806	56,363	1.2
Total:	<u>214,632</u>	<u>5.3</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>214,632</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 04-03-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 5 (PTU5)
AREA TF406

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

December	<u>29</u>	<u>30</u>	<u>31</u>																
January	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>				
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>31</u>			

Total monthly time facility operated (hours): 831

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>01-29-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>20.6</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1309	90	3.3
W-1310	709,293	14.3
GSW-445	51	1.9
Total:	<u>709,434</u>	<u>19.5</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>709,434</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 02-06-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 5 (PTU5)
AREA TF406

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 696

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 02-14-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 21.9

4. Wellfield Data:

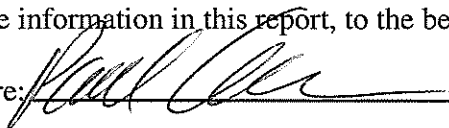
<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1309	0	0.0
W-1310	583,069	14.2
GSW-445	0	0.0
Total:	<u>583,069</u>	<u>14.2</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>583,069</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 03-21-2008

Self-Monitoring Report
LLNL Portable Treatment Unit 5 (PTU5)
AREA TF406

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

March **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
 16 **17** 18 19 20 21 22 23 24 25 26 27 **28** 29 30 31

Total monthly time facility operated (hours): **406**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **03-13-2008**
Influent pH: **7.5**
Effluent pH: **7.0**
Effluent Temperature (°C): **21.7**

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1309	36	0.0
W-1310	341,101	14.3
GSW-445	20	0.0
Total:	<u>341,157</u>	<u>14.3</u>

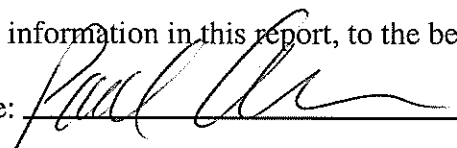
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>341,157</u>

6. Comments:

System shut down on 3/17/08 due to well pump failure in W-1310. System was started on 3/28/08, pumping from wells: W-1309 and GSW-445, to take BAAQMD readings. System to remain secure until well pump repairs to W-1310 can be facilitated.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **03-31-2008**

Self-Monitoring Report
LLNL GAC Treatment Unit 03 (GTU03)
AREA TF406-NW

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

December 29 30 31
January 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 819

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 01-28-2008
Influent pH: 7.5
Effluent pH: 7.5
Effluent Temperature (°C): 21.2

4. Wellfield Data:

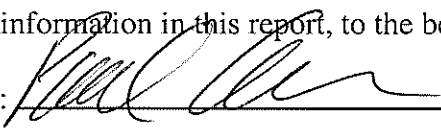
<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1801	112,458	2.2
Total:	<u>112,458</u>	<u>2.2</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>112,458</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 02-06-2008

Self-Monitoring Report
LLNL GAC Treatment Unit 03 (GTU03)
AREA TF406-NW

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February **01** 02 03 04 05 06 **07** **08** **09** **10** **11** **12** **13** **14** **15**
 16 **17** **18** **19** 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 314

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 02-14-2008
Influent pH: 7.0
Effluent pH: 7.0
Effluent Temperature (°C): 20.3

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1801	51,264	2.1
Total:	<u>51,264</u>	<u>2.1</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>51,264</u>

6. Comments:

Facility down time due to low flow from W-1801.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 03-05-2008

Self-Monitoring Report
LLNL GAC Treatment Unit 03 (GTU03)
AREA TF406-NW

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

March	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1801	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

System secure pending well W-1801 pump repairs.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 04-08-2008

Self-Monitoring Report
LLNL Solar Treatment Unit 09 (STU09)
AREA TF518-N

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

January 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 **23** **24** 25 **26** **27** **28** **29** **30** **31**

Total monthly time facility operated (hours): 161

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 01-23-2008
Influent pH: 7.0
Effluent pH: 7.5
Effluent Temperature (°C): 14

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1410	24,679	2.7
Total:	<u>24,679</u>	<u>2.7</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>24,679</u>

6. Comments:

5/22/07 to 1/22/08 facility was down per Ed folsom. 1/25/08 facility down for Interlock check.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: *Jim Mitchell* Date: 02-01-2008

Self-Monitoring Report
LLNL Solar Treatment Unit 09 (STU09)
AREA TF518-N

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 481

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 02-05-2008
Influent pH: 7.0
Effluent pH: 7.5
Effluent Temperature (°C): 20.5

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1410	72,993	2.5
Total:	<u>72,993</u>	<u>2.5</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>72,993</u>

6. Comments:

Facility was shut down on 2-20 per Ed Folsom due to Tritium level.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Brian Mitchell Date: 03-03-2008

Self-Monitoring Report
LLNL Solar Treatment Unit 09 (STU09)
AREA TF518-N

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

March	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1410	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 04-01-2008

Self-Monitoring Report
LLNL Treatment Facility 518-HDTANK (TF518-HDTANK)
AREA TF518-PZ

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

December	<u>29</u>	<u>30</u>	<u>31</u>																		
January	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>						
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>31</u>					

Total monthly time facility operated (hours): 819

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1615	123	0.0
W-518-1913	73	0.0
W-518-1914	0	0.0
W-518-1915	134	0.0
SVB-518-204	21	0.0
SVB-518-201	4	0.0
Total:	<u>355</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>355.5</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: 02-01-2008

Self-Monitoring Report
LLNL Treatment Facility 518-HDTANK (TF518-HDTANK)
AREA TF518-PZ

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27

Total monthly time facility operated (hours): 687

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1615	329	0.0
W-518-1913	13	0.0
W-518-1914	18	0.0
W-518-1915	108	0.0
SVB-518-204	13	0.0
SVB-518-201	0	0.0
Total:	<u>481</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>480.9</u>

6. Comments:

Facility shutdown 2/27/08 per Lindee Berg due to reduction of Environmental Restoration Division operations staff.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 03-03-2008

Self-Monitoring Report
LLNL Treatment Facility 518-HDTANK (TF518-HDTANK)
AREA TF518-PZ

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February	28	29													
March	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
															31

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1615	0	0.0
W-518-1913	0	0.0
W-518-1914	0	0.0
W-518-1915	0	0.0
SVB-518-204	0	0.0
SVB-518-201	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi

Date: 04-01-2008

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 1 (CRD1)
AREA TF5475-1

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

December	29	30	31																		
January	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15						
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1302-2	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>CRD-1 injection</u>	<u>W-1302-1</u>	<u>0</u>

6. Comments:

The facility did not operate during the month due to computer problems (the system locks up, screen is frozen)

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy V. Kuhl Date: 02-25-2008

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 1 (CRD1)
AREA TF5475-1

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1302-2	0	0.0
<hr/>		
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>CRD-1 injection</u>	<u>W-1302-1</u>	<u>0</u>

6. Comments:

The facility did not operate during the month due to computer problems(the system locks up, screen is frozen).

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kuhn Date: 03-05-2008

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 1 (CRD1)
AREA TF5475-1

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

March	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1302-2	0	0.0
Total:	<u>0</u>	<u>0.0</u>


5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>CRD-1 injection</u>	<u>W-1302-1</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 04-01-2008

Self-Monitoring Report
LLNL GAC Treatment Unit 09 (GTU09)
AREA TF5475-2

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

December 29 30 31
January 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 388

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 01-16-2008
Influent pH: 6.5
Effluent pH: 7.0
Effluent Temperature (°C): 14.6

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1108	93,439	4.1
W-1415	4,000	0.4
Total:	<u>97,439</u>	<u>4.5</u>

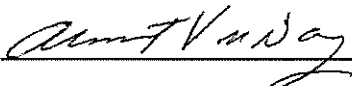
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>97,439</u>

6. Comments:

Facility re-started on 1-15-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 01-31-2008

Self-Monitoring Report
LLNL GAC Treatment Unit 09 (GTU09)
AREA TF5475-2

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 662

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 02-04-2008
Influent pH: 6.0
Effluent pH: 6.6
Effluent Temperature (°C): 16

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1108	161,300	4.0
W-1415	5,211	0.3
Total:	<u>166,511</u>	<u>4.4</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>166,511</u>

6. Comments:

Facility was secured on 2-27-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 02-29-2008

Self-Monitoring Report
LLNL GAC Treatment Unit 09 (GTU09)
AREA TF5475-2

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

March	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1108	0	0.0
W-1415	0	0.0
Total:	<u>0</u>	<u>0.0</u>

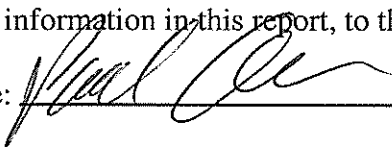
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **04-08-2008**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 2 (CRD2)
AREA TF5475-3

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

December 29 30 31
January 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1608	0	0.0
W-1605	0	0.0
W-1604	0	0.0
W-1609	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>CRD-2 injection</u>	<u>W-1610</u>	<u>0</u>

6. Comments:

The facility did not run during the month due to high system pressure problems.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kuhl Date: **02-25-2008**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 2 (CRD2)
AREA TF5475-3

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1608	0	0.0
W-1605	0	0.0
W-1604	0	0.0
W-1609	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>CRD-2 injection</u>	<u>W-1610</u>	<u>0</u>

6. Comments:

The facility did not run during the month due to high system pressure problems.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kuhn Date: 03-05-2008

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 2 (CRD2)
AREA TF5475-3

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treated ground water was discharged

March	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1608	0	0.0
W-1605	0	0.0
W-1604	0	0.0
W-1609	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>CRD-2 injection</u>	<u>W-1610</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **04-01-2008**

Self-Monitoring Report
LLNL Vapor Extraction System 08 (VES08)
AREA VTF406-HS

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treatment facility operated

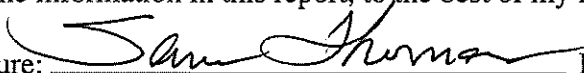
December	<u>29</u>	<u>30</u>	<u>31</u>																	
January	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>					
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>31</u>				

3. Wellfield Data:

<u>Source</u>	<u>Monthly</u> <u>Volume(cu. ft)</u>	<u>Instantaneous</u> <u>Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours</u> <u>of Op.</u>
W-217	1,135,552	21.1	-4.05	55	821
W-514-2007A	375,584	5.8	-4.79	55	821
W-514-2007B	540,930	12.1	-4.65	55	821
Total:	<u>2,052,066</u>	<u>39.0</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 01-31-2008

Self-Monitoring Report

LLNL Vapor Extraction System 08 (VES08)

AREA VTF406-HS

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treatment facility operated

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

3. Wellfield Data:

<u>Source</u>	<u>Monthly</u> <u>Volume(cu. ft)</u>	<u>Instantaneous</u> <u>Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours</u> <u>of Op.</u>
W-514-2007A	248,679	4.0	-4.79	57	703
W-514-2007B	420,529	15.1	-4.65	57	703
W-217	959,990	21.1	-4.04	57	703
Total:	<u>1,629,198</u>	<u>40.2</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: 03-03-2008

Self-Monitoring Report
LLNL Vapor Extraction System 08 (VES08)
AREA VTF406-HS

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treatment facility operated


March 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

3. Wellfield Data:

<u>Source</u>	<u>Monthly</u> <u>Volume(cu. ft)</u>	<u>Instantaneous</u> <u>Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours</u> <u>of Op.</u>
W-217	1,027,344	21.1	-4.12	58	748
W-514-2007A	240,613	5.7	-4.71	58	748
W-514-2007B	336,148	15.5	-4.57	58	748
Total:	<u>1,604,105</u>	<u>42.4</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 04-03-2008

Self-Monitoring Report

LLNL Vapor Extraction System 14 (VES14)

AREA VTF511

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treatment facility operated

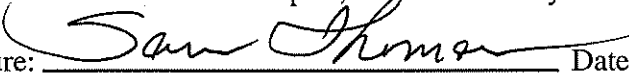
December	<u>29</u>	<u>30</u>	<u>31</u>																		
January	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>						
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>31</u>					

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-274	0	0.0	0	0	0
W-2208A	0	0.0	0	0	0
W-2207A	0	0.0	0	0	0
W-2207B	421,810	8.7	-3	44	808
W-1517	0	0.0	0	0	0
W-2208B	228,685	6.0	-1.5	44	808
W-2204	0	0.0	0	0	0
W-2206	0	0.0	0	0	0
W-2205	0	0.0	0	0	0
Total:	<u>650,495</u>	<u>14.7</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 02-06-2008

Self-Monitoring Report

LLNL Vapor Extraction System 14 (VES14)

AREA VTF511

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treatment facility operated

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-2205	0	0.0	0	0	0
W-274	0	0.0	0	0	0
W-2208A	158	0.0	0	0	1
W-2207A	138	0.0	0	0	1
W-2207B	313,514	8.6	-2.8	50	599
W-1517	17	0.0	0	0	1
W-2208B	286,596	5.6	-1	50	599
W-2204	0	0.0	0	0	0
W-2206	0	0.0	0	0	0
Total:	<u>600,423</u>	<u>14.2</u>			

4. Comments:

Shutdown facility 2/1/08 due to leak at TFE-SE effluent piping. Facility was restarted 2/5/08. Monthly Volumes accumulated for SVE wells W-2207A, W-2208A and W-1517 were volumes purged from wells prior to quarterly sample collection.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: 03-03-2008

Self-Monitoring Report

LLNL Vapor Extraction System 14 (VES14)

AREA VTF511

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treatment facility operated

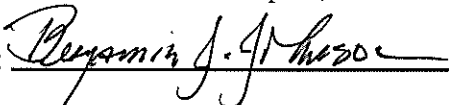
March 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-274	0	0.0	0	0	0
W-2208A	0	0.0	0	0	0
W-2207A	0	0.0	0	0	0
W-2207B	417,034	9.4	-2.5	53	743
W-1517	0	0.0	0	0	0
W-2208B	431,564	10.1	-3.2	53	743
W-2204	0	0.0	0	0	0
W-2206	0	0.0	0	0	0
W-2205	0	0.0	0	0	0
Total:	<u>848,598</u>	<u>19.5</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 04-03-2008

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month January Week: 1 Year 2008

2. Dates (in **bold** and underline) treatment facility operated

December 29 30 31
January 01 02 03 04

3. Wellfield Data:

<u>Source</u>	<u>Weekly</u> <u>Volume(cu. ft)</u>	<u>Instantaneous</u> <u>Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours</u> <u>of Op.</u>
W-1615	14,104	1.4	-9	54	168
W-518-1913	6,044	0.6	-11.2	54	168
W-518-1914	27,200	2.7	-2	54	168
W-518-1915	5,037	0.5	-9.1	54	168
SVB-518-204	24,178	2.4	-5.5	54	168
SVB-518-201	31,229	3.1	-1.5	54	168
Total:	<u>107,792</u>	<u>10.7</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: 01-22-2008

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month January Week: **2** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

January **05** **06** **07** **08** **09** **10** **11**

3. Wellfield Data:

<u>Source</u>	<u>Weekly</u> <u>Volume(cu. ft)</u>	<u>Instantaneous</u> <u>Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours</u> <u>of Op.</u>
W-1615	15,345	1.5	-9.5	50	170
W-518-1913	7,161	0.7	-12	50	170
W-518-1914	26,598	2.6	-2.8	50	170
W-518-1915	3,069	0.3	-10.9	50	170
SVB-518-204	25,575	2.5	-5.5	50	170
SVB-518-201	33,759	3.3	-1.5	50	170
Total:	<u>111,507</u>	<u>10.9</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **01-22-2008**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month January Week: **3** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated

January **12** **13** **14** **15** **16** **17** **18**

3. Wellfield Data:

<u>Source</u>	<u>Weekly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1615	14,922	1.5	-9.8	36	166
W-518-1913	6,964	0.7	-11.6	36	166
W-518-1914	27,854	2.8	-2	36	166
W-518-1915	4,974	0.5	-9	36	166
SVB-518-204	24,870	2.5	-5.5	36	166
SVB-518-201	31,834	3.2	-1.5	36	166
Total:	<u>111,418</u>	<u>11.2</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **01-24-2008**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month January Week: **4** Year **2008**

2. Dates (in **bold** and underline) treatment facility operated


January **19** **20** **21** **22** **23** **24** **25**

3. Wellfield Data:

<u>Source</u>	<u>Weekly</u> <u>Volume(cu. ft)</u>	<u>Instantaneous</u> <u>Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours</u> <u>of Op.</u>
W-1615	14,129	1.4	-10	46	168
W-518-1913	6,055	0.6	-11.5	46	168
W-518-1914	26,239	2.6	-2	46	168
W-518-1915	4,037	0.4	-10	46	168
SVB-518-204	24,221	2.4	-5.5	46	168
SVB-518-201	32,294	3.2	-1.5	46	168
Total:	<u>106,975</u>	<u>10.6</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **01-29-2008**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month February Week: 1 Year 2008

2. Dates (in **bold** and underline) treatment facility operated

January 26 27 28 29 30 31
February 01

3. Wellfield Data:

<u>Source</u>	<u>Weekly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1615	15,030	1.5	-10	38	167
W-518-1913	6,012	0.6	-11.9	38	167
W-518-1914	27,054	2.7	-2	38	167
W-518-1915	3,006	0.3	-10.6	38	167
SVB-518-204	25,050	2.5	-5.7	38	167
SVB-518-201	33,066	3.3	-1.5	38	167
Total:	<u>109,218</u>	<u>10.9</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: 02-06-2008

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month February Week: 2 Year 2008

2. Dates (in **bold** and underline) treatment facility operated

February **02** **03** **04** **05** **06** **07** **08**

3. Wellfield Data:

<u>Source</u>	<u>Weekly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1615	15,165	1.5	-9.6	48	168
W-518-1913	6,066	0.6	-11.4	48	168
W-518-1914	27,297	2.7	-2	48	168
W-518-1915	6,066	0.6	-8.6	48	168
SVB-518-204	24,264	2.4	-5.5	48	168
SVB-518-201	34,374	3.4	-1.5	48	168
Total:	<u>113,232</u>	<u>11.2</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 02-13-2008

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month February Week: 3 Year 2008

2. Dates (in **bold** and underline) treatment facility operated

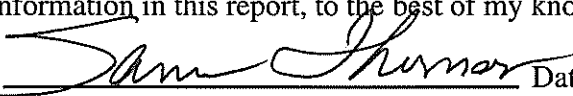
February **09** **10** **11** **12** **13** **14** **15**

3. Wellfield Data:

<u>Source</u>	<u>Weekly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1615	15,390	1.5	-9.5	65	171
W-518-1913	6,156	0.6	-11.3	65	171
W-518-1914	27,702	2.7	-2	65	171
W-518-1915	6,156	0.6	-8.5	65	171
SVB-518-204	24,624	2.4	-5.5	65	171
SVB-518-201	34,884	3.4	-1.5	65	171
Total:	<u>114,912</u>	<u>11.2</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 02-19-2008

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month February Week: 4 Year 2008

2. Dates (in **bold** and underline) treatment facility operated

February **16** **17** **18** **19** **20** **21** **22**

3. Wellfield Data:

<u>Source</u>	<u>Weekly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1615	15,120	1.5	-9.8	50	168
W-518-1913	6,048	0.6	-11.5	50	168
W-518-1914	27,216	2.7	-2	50	168
W-518-1915	4,032	0.4	-10.1	50	168
SVB-518-204	24,192	2.4	-5.5	50	168
SVB-518-201	34,272	3.4	-1.5	50	168
Total:	<u>110,880</u>	<u>11.0</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **03-03-2008**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month February Week: 5 Year 2008

2. Dates (in **bold** and underline) treatment facility operated

February **23** **24** **25** **26** **27**

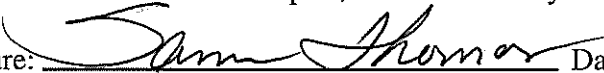
3. Wellfield Data:

<u>Source</u>	<u>Weekly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1615	9,173	1.3	-10.5	52	118
W-518-1913	4,234	0.6	-11.8	52	118
W-518-1914	17,640	2.5	-3.5	52	118
W-518-1915	1,411	0.2	-9.5	52	118
SVB-518-204	17,640	2.5	-5.6	52	118
SVB-518-201	24,696	3.5	-1.5	52	118
Total:	<u>74,794</u>	<u>10.6</u>			

4. Comments:

Facility was shutdown 2/27/08 and secured as a result of workforce reductions.
Compliance reading were taken prior to facility shutdown. Soil vapor extraction
unit drained of fluids and relocated to Bldg. 438 for storage.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 03-03-2008

Self-Monitoring Report

LLNL Vapor Extraction System 19 (VES19)

AREA VTF518-PZ

1. Reporting Period: Business Month March Week: 1 Year 2008

2. Dates (in **bold** and underline) treatment facility operated

February	28	29																														
March	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15																	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31																

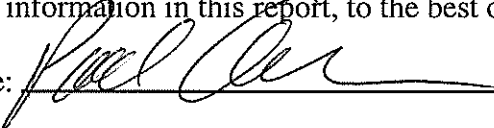
3. Wellfield Data:

<u>Source</u>	<u>Weekly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1615	0	0.0	0	0	0
W-518-1913	0	0.0	0	0	0
W-518-1914	0	0.0	0	0	0
W-518-1915	0	0.0	0	0	0
SVB-518-204	0	0.0	0	0	0
SVB-518-201	0	0.0	0	0	0
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 04-09-2008

Self-Monitoring Report

LLNL Vapor Extraction System 01 (VES01)

AREA VTF5475

1. Reporting Period: Business Month January Year 2008

2. Dates (in **bold** and underline) treatment facility operated

December	29	30	31																			
January	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15							
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-ETS-507	0	0.0	0	0	0
W-1605	0	0.0	0	0	0
W-1608	0	0.0	0	0	0
W-2303	0	0.0	0	0	0
W-2212	0	0.0	0	0	0
W-2211	0	0.0	0	0	0
W-2302	0	0.0	0	0	0
SVI-ETS-504	0	0.0	0	0	0
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>VTF5475 Vapor Injection Well</u>	<u>SVI-ETS-505</u>	<u>0</u>

5. Comments:

The facility has been shut down until mixed waste issues have been resolved and did not run during the reporting month.

6. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kish Date: 02-25-2008

Self-Monitoring Report

LLNL Vapor Extraction System 01 (VES01)

AREA VTF5475

1. Reporting Period: Business Month February Year 2008

2. Dates (in **bold** and underline) treatment facility operated

February 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-ETS-507	0	0.0	0	0	0
W-1605	0	0.0	0	0	0
W-1608	0	0.0	0	0	0
W-2303	0	0.0	0	0	0
W-2212	0	0.0	0	0	0
W-2211	0	0.0	0	0	0
W-2302	0	0.0	0	0	0
SVI-ETS-504	0	0.0	0	0	0
Total:	<u>0</u>	<u>0.0</u>			

4. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>VTF5475 Vapor Injection Well</u>	<u>SVI-ETS-505</u>	<u>0</u>

5. Comments:

The facility did not operate during the month. Mixed waste issues need to be resolved.

6. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kuhn Date: 03-05-2008

Self-Monitoring Report

LLNL Vapor Extraction System 01 (VES01)

AREA VTF5475

1. Reporting Period: Business Month March Year 2008

2. Dates (in **bold** and underline) treatment facility operated

March	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30 31

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-ETS-507	0	0.0	0	0	0
W-1605	0	0.0	0	0	0
W-1608	0	0.0	0	0	0
W-2303	0	0.0	0	0	0
W-2212	0	0.0	0	0	0
W-2211	0	0.0	0	0	0
W-2302	0	0.0	0	0	0
SVI-ETS-504	0	0.0	0	0	0
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>VTF5475 Vapor Injection Well</u>	<u>SVI-ETS-505</u>	<u>0</u>

5. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

6. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaga Date: 04-01-2008

Attachment C

Lake Haussmann

Attachment C

Lake Haussmann First Quarter 2008 Monitoring Program Summary

No sampling was required during first quarter, 2008. Sampling will resume in June for the dry season. This attachment summarizes sampling requirements for LLNL Environmental Protection Department for discharge from Lake Haussmann. Lake Haussmann is an artificial water body that has a 37 acre-ft capacity. It is located in the central portion of the Livermore Site (Fig. C-1) and receives storm water runoff and treated ground water discharges.

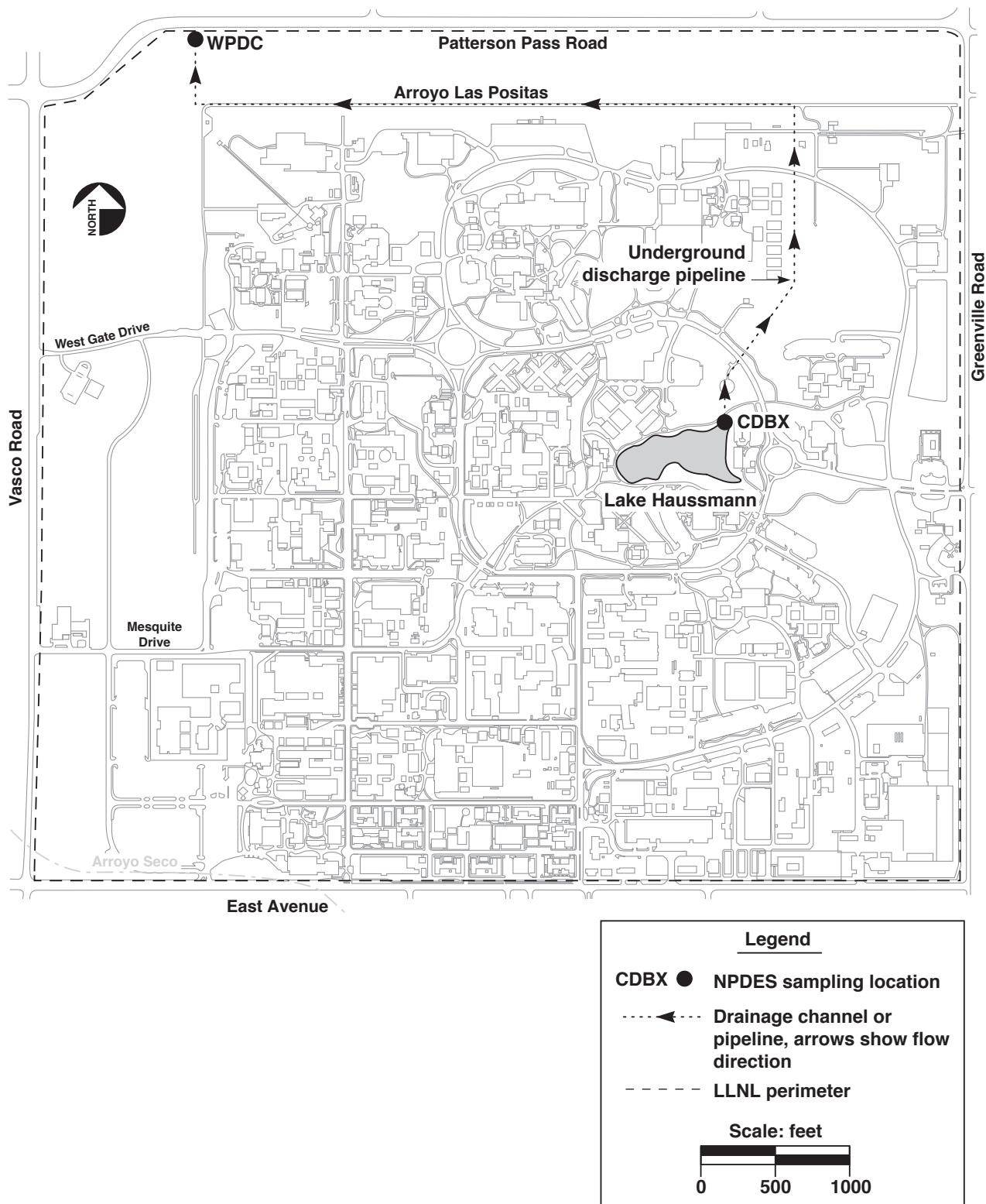
Samples are collected from water discharged from Lake Haussmann and analyzed as outlined in Jackson (2002). The discharge samples are used to determine compliance with discharge limits in the *Record of Decision* (DOE, 1992), and the subsequent *Explanation of Significant Differences for Metals Discharge Limits* (Berg et al., 1997).

Dry season (June, July, August, September) discharges are sampled at each manual release or monthly during periods of continual release. Wet season (October through May) discharge samples are collected at the first release of the wet season and one other discharge in conjunction with a storm water monitoring event. Analytic results of discharge samples collected at location CDBX are compared with the LLNL Arroyo Las Positas outfall sample results collected at location WPDC (Fig. C-1). There are no analytical results for locations CDBX and WPDC because no sampling was required during first quarter, 2008.

Discharge from Lake Haussmann remained continuous during the first quarter. Lake Haussmann's upper weir gate was maintained at the lowered position during the entire first quarter so that releases occurred continuously to minimize changes in surface water level and allow for a more natural ecosystem.

References

- U.S. Department of Energy, *Record of Decision for the Lawrence Livermore National Laboratory, Livermore Site*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-AR-109105, (1992).
- Berg, L.L., E.N. Folsom, M.D. Dresen, R.W. Bainer, and A.L. Lamarre, Eds., *Explanation of Significant Differences for Metals Discharge Limits at the Lawrence Livermore National Laboratory, Livermore Site*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-AR-125927 (1997).
- Jackson, C.S., *Drainage Retention Basin Monitoring Plan Change*, Letter to Ms. Naomi Feger, San Francisco Bay RWQCB, Lawrence Livermore National Laboratory, Livermore, CA, WGMG02:175:CSJ:RW:kh, (December 6, 2002).



ERD-S3R-08-0041

Figure C-1. Location of Lake Haussmann showing discharge sampling locations.

Attachment D

Figures

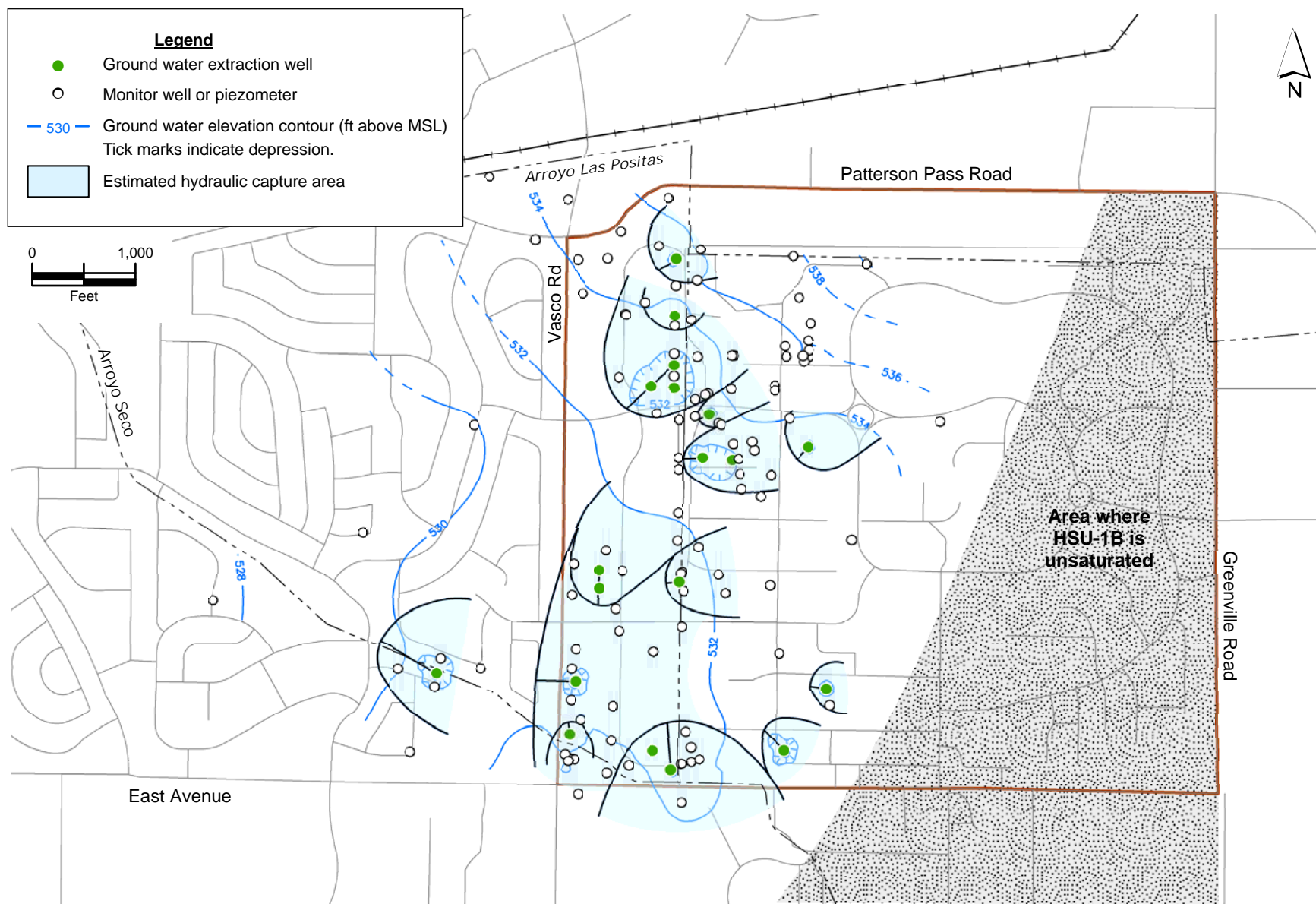


Figure 2. Ground water elevation contour map based on 125 wells completed within HSU-1B showing estimated hydraulic capture areas, LLNL and vicinity, November 2007.

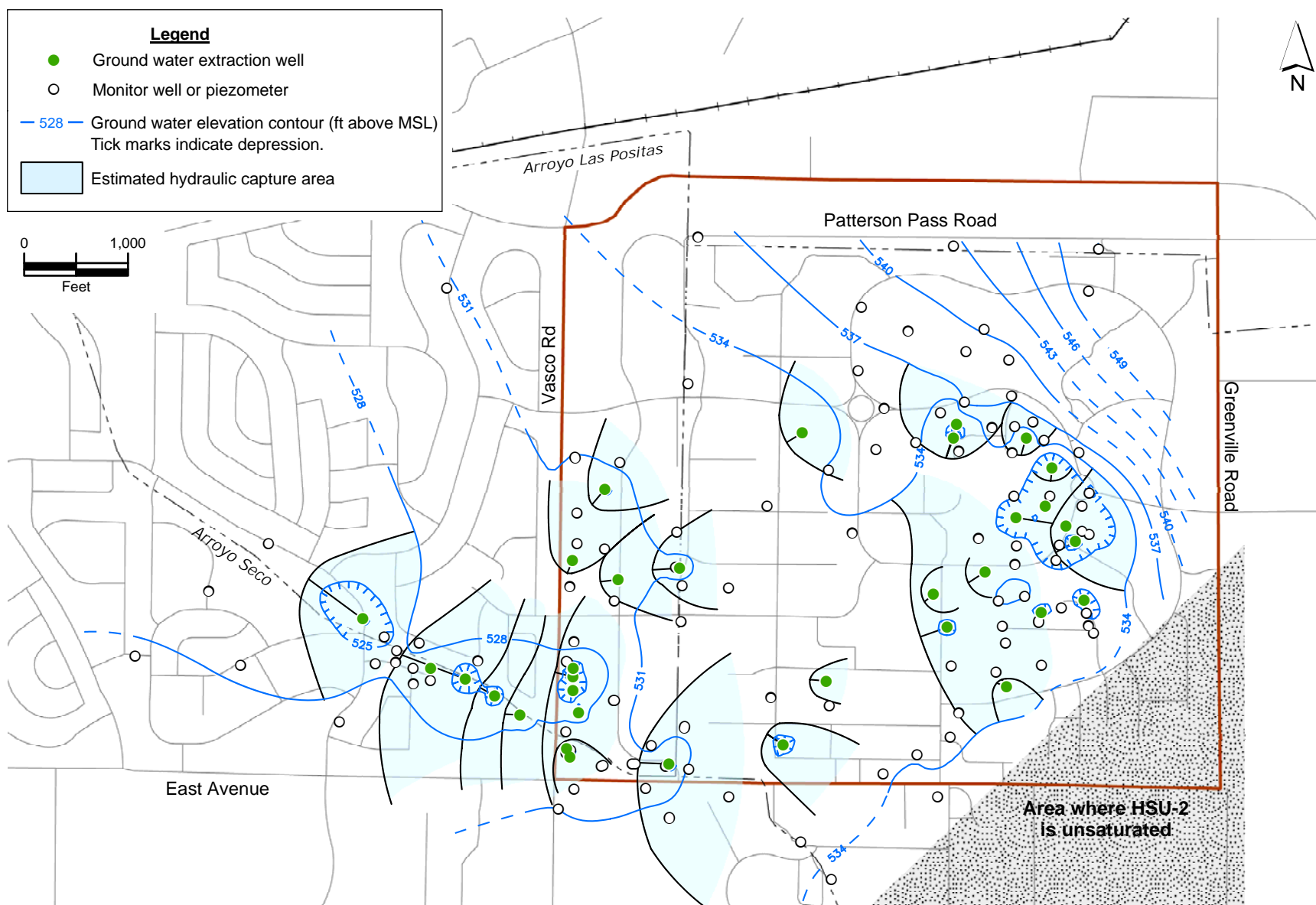


Figure 3. Ground water elevation contour map based on 149 wells completed within HSU-2 showing estimated hydraulic capture areas, LLNL and vicinity, January 2008.

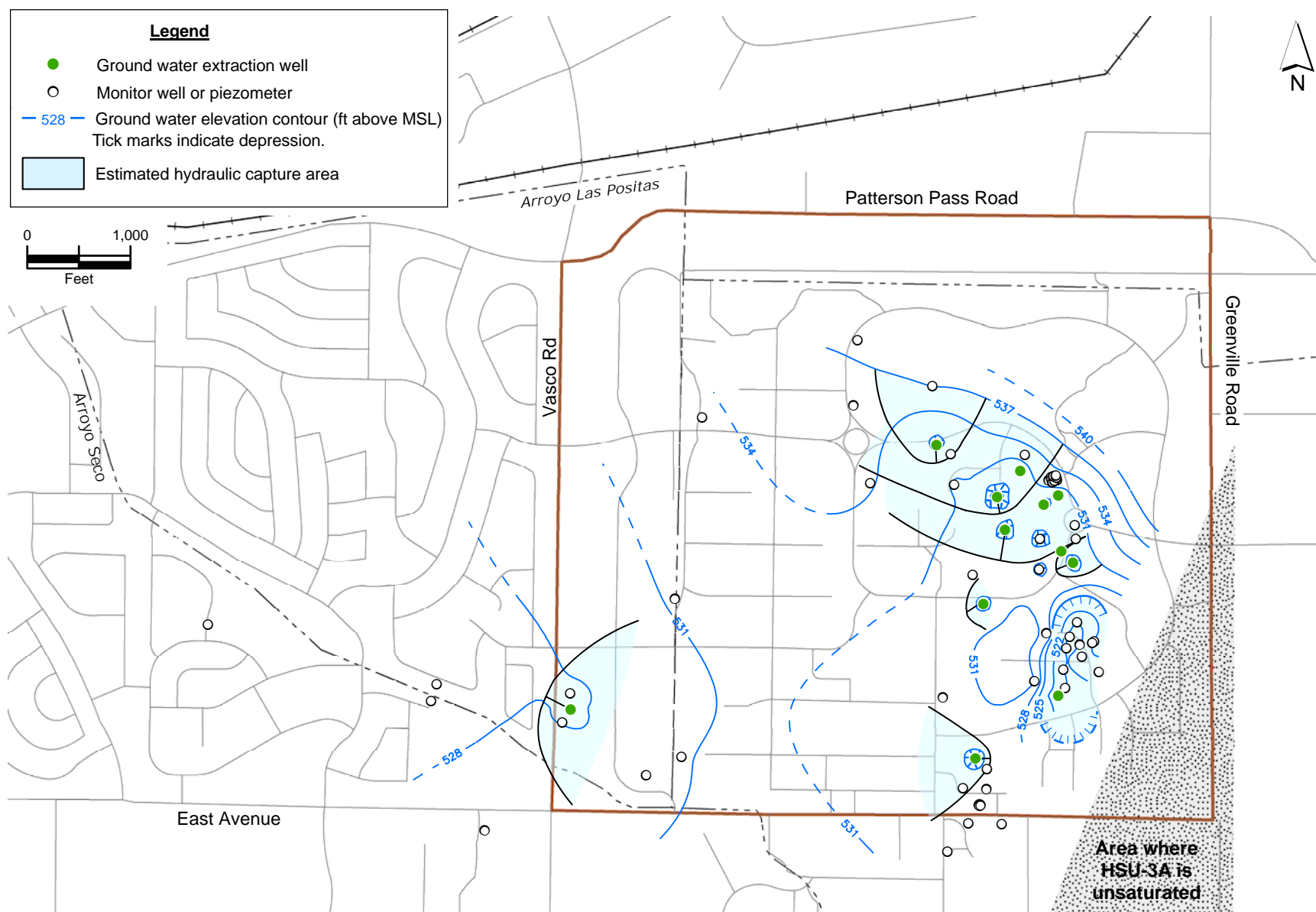


Figure 4. Ground water elevation contour map based on 67 wells completed within HSU-3A showing estimated hydraulic capture areas, LLNL and vicinity, January 2008.

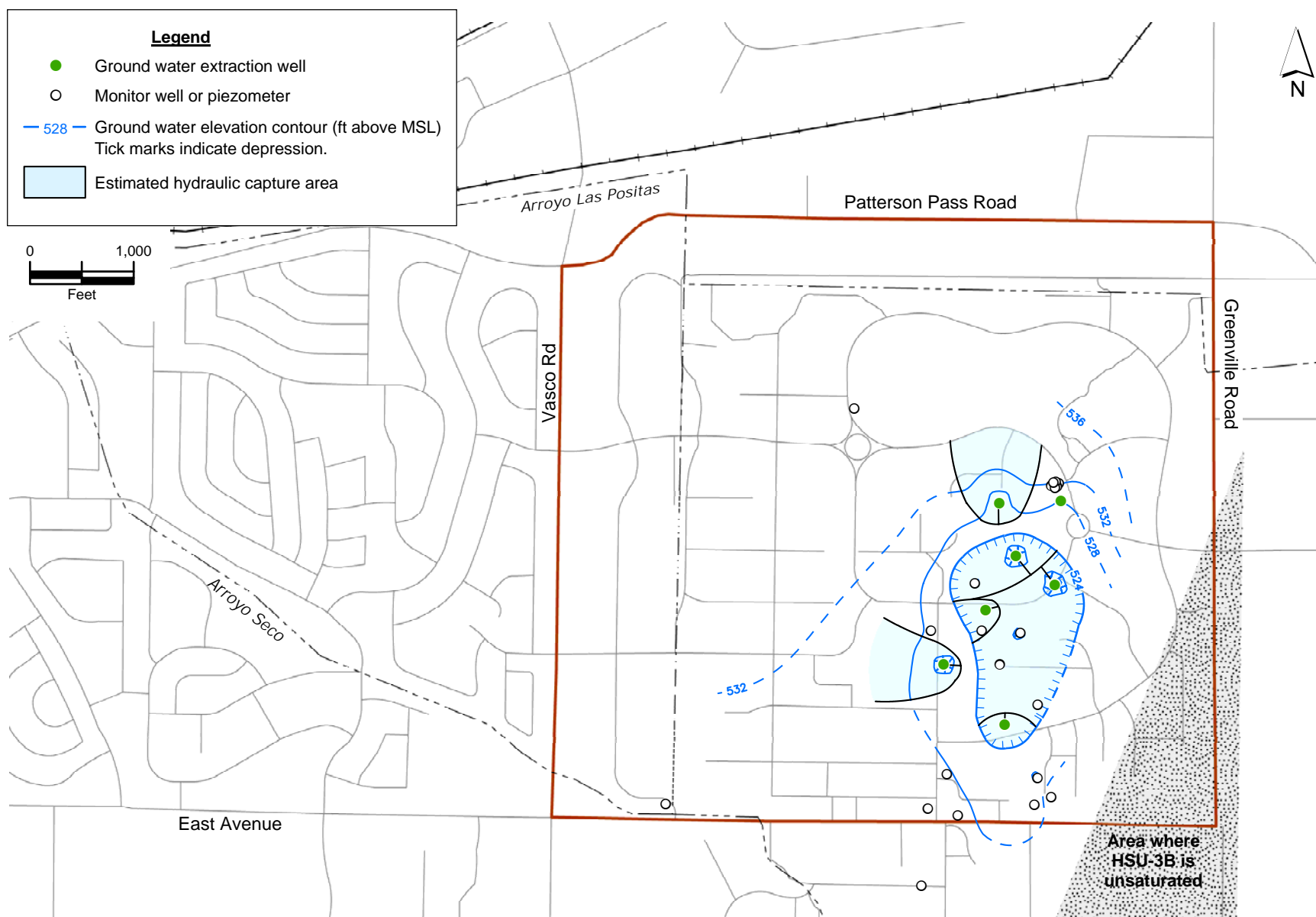


Figure 5. Ground water elevation contour map based on 29 wells completed within HSU-3B showing estimated hydraulic capture areas, LLNL and vicinity, January 2008.

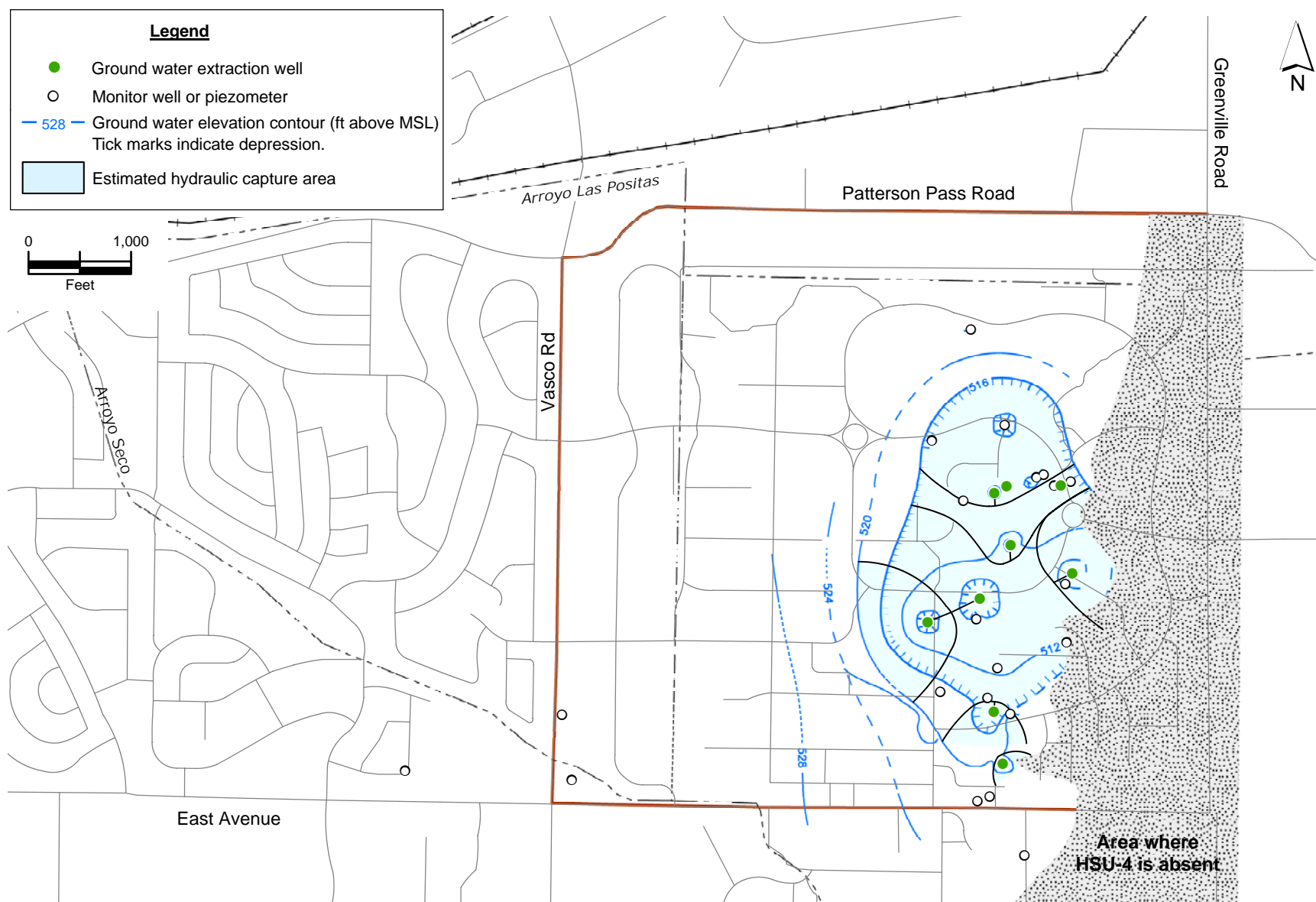


Figure 6. Ground water elevation contour map based on 30 wells completed within HSU-4 showing estimated hydraulic capture areas, LLNL and vicinity, February 2008.

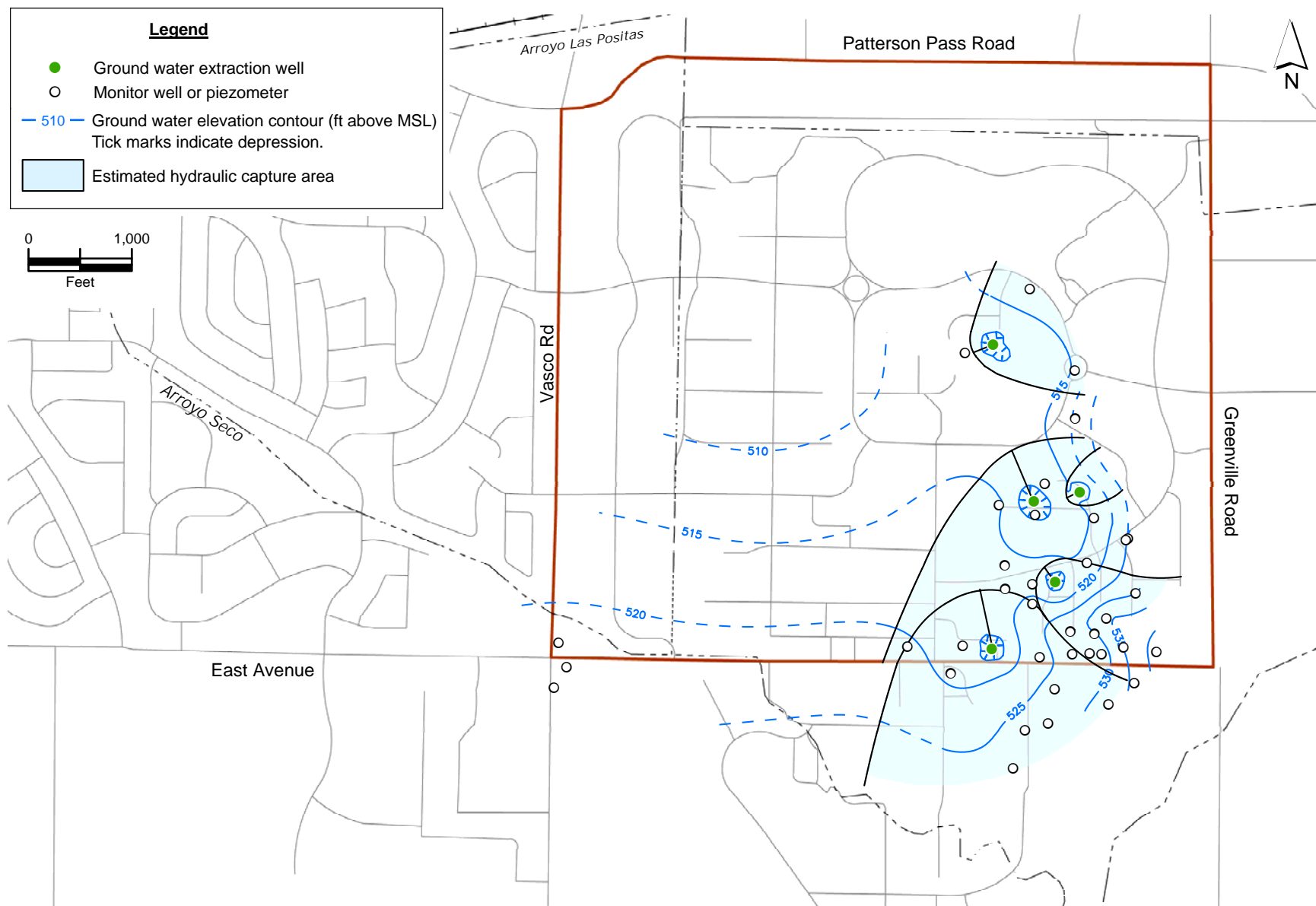


Figure 7. Ground water elevation contour map based on 43 wells completed within HSU-5 showing estimated hydraulic capture areas, LLNL and vicinity, January 2008.